

Computer algebra independent integration tests (Lite version) applied to different Maple versions

Nasser M. Abbasi

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1 Introduction

This report gives the result of running the computer algebra independent integration problems (Lite version) obtained from from Albert Rich Rubi web site.

The following versions of Maple were tested at this time. All on windows 7.

1. Version 2017.3
2. Version 2016.2
3. Version 2015.2
4. Version 18.02 (2014)
5. Version 17.02 (2013)
6. Version 16.02 (2012)
7. Version 14.0 (2010)
8. Version 12.0 (2008)

The PC used is an Intel i7-3930k running at 3.20 GHz with 16 GB memory.

A time limit of 3 minutes is used for all integrals in each CAS. If the integration does not complete within this time limit then the integral is considered to have failed.

The table below gives additional break down of the grading of quality of the antiderivatives generated by each CAS. The grading is given using the letters A,B,C and F with A being the best quality. The grading is accomplished by comparing the antiderivative generated with the optimal antiderivatives included in the test suite. The following table describes the meaning of these grades.

grade	description
A	Integral was solved and antiderivative is optimal in quality and leaf size.
B	Integral was solved and antiderivative is optimal in quality but leaf size is larger than twice the optimal antiderivatives leaf size.
C	<p>Integral was solved and antiderivative is non-optimal in quality. This can be due to one or more of the following reasons</p> <ol style="list-style-type: none"> 1. antiderivative contains a hypergeometric function and the optimal antiderivative does not. 2. antiderivative contains a special function and the optimal antiderivative does not. 3. antiderivative contains the imaginary unit and the optimal antiderivative does not.
F	Integral was not solved. Either the integral was returned unevaluated within the time limit, or it timed out, or CAS hanged or crashed or an exception was raised.

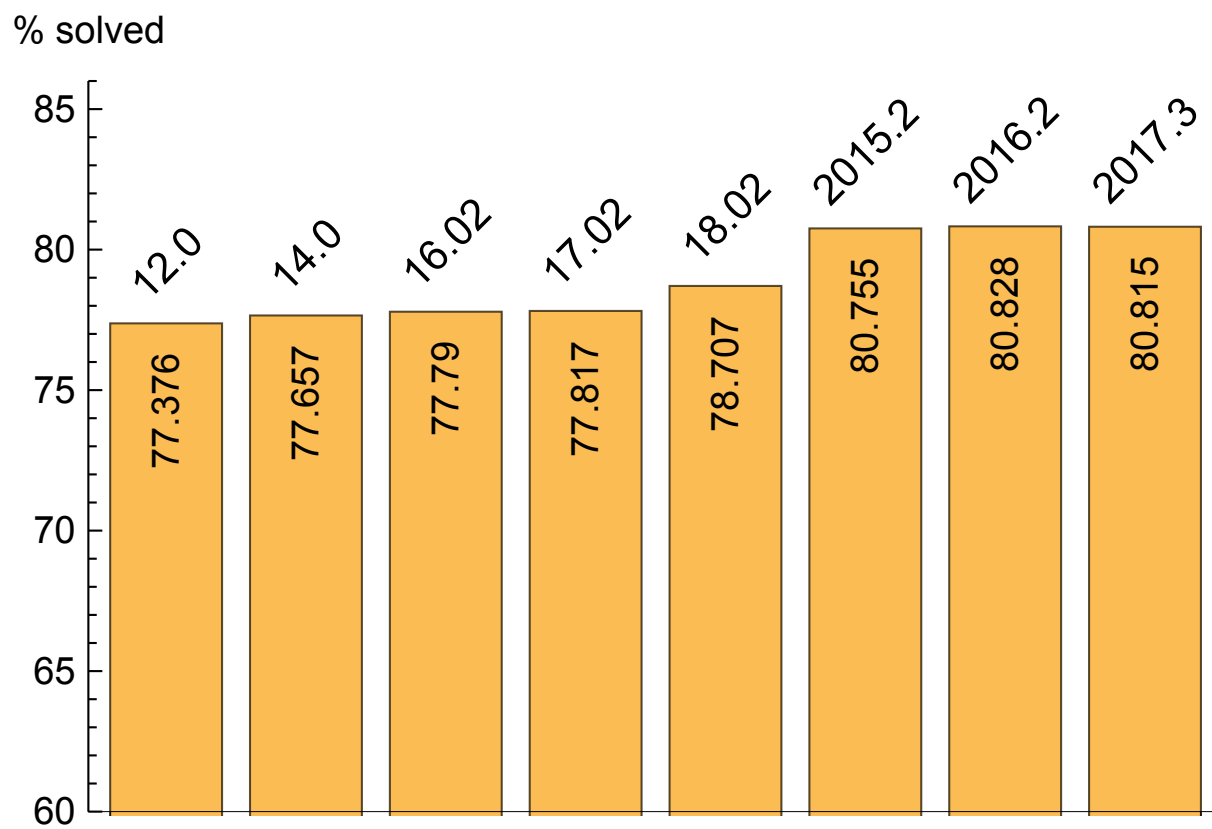
Based on the above, the following tables summarizes the grading for each test suite for each version
This table shows the percentage and count of solved and non solved integrals for each version. There are a total of [14944] integrals in the test suite.

Version	percentage solved	number solved	number failed
2017.3	80.815	12077	2867
2016.2	80.828	12079	2865
2015.2	80.755	12068	2876
18.02	78.707	11762	3182
17.02	77.817	11629	3315
16.02	77.79	11625	3319
14.0	77.657	11605	3339
12.0	77.376	11563	3381

Table 1: Solved percentage over versions

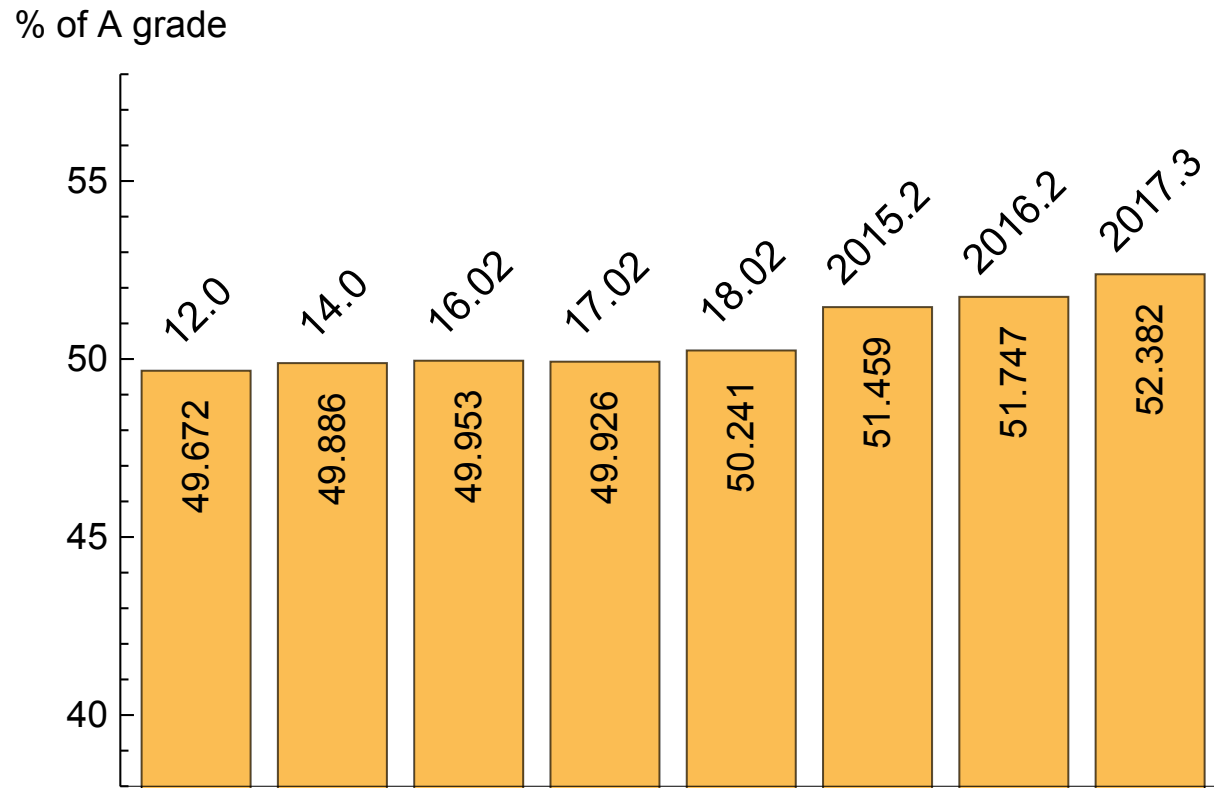
This figure shows the percentage of passed integrals in each version.

Performance of Maple integrate over different versions



This Plot shows the number of A graded result for each version.

Percentage of A graded result over different versions



This table shows the grading performance for each version.

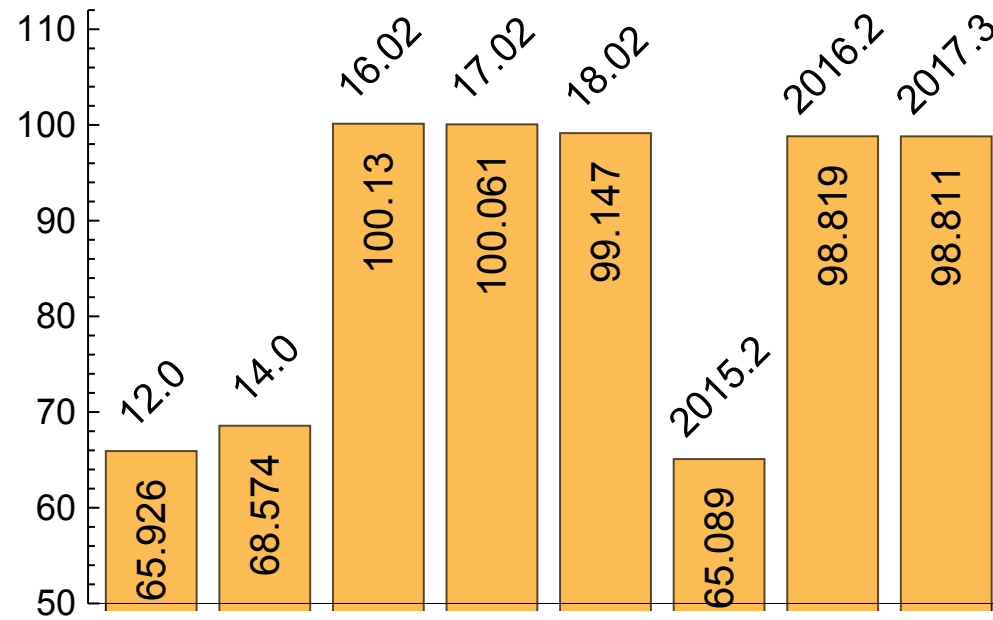
Version	%A	%B	%C	%F
2017.3	52.382 (7828)	20.844 (3115)	7.588 (1134)	19.185 (2867)
2016.2	51.747 (7733)	21.36 (3192)	7.722 (1154)	19.172 (2865)
2015.2	51.459 (7690)	21.547 (3220)	7.749 (1158)	19.245 (2876)
18.02	50.241 (7508)	21.313 (3185)	7.153 (1069)	21.293 (3182)
17.02	49.926 (7461)	21.32 (3186)	6.571 (982)	22.183 (3315)
16.02	49.953 (7465)	21.266 (3178)	6.571 (982)	22.21 (3319)
14.0	49.886 (7455)	21.159 (3162)	6.611 (988)	22.343 (3339)
12.0	49.672 (7423)	21.166 (3163)	6.538 (977)	22.624 (3381)

Table 2: Performance grading summary table over versions

This figure show the mean of the normalized leaf size for each version. This was normalized to the size of the optimal result.

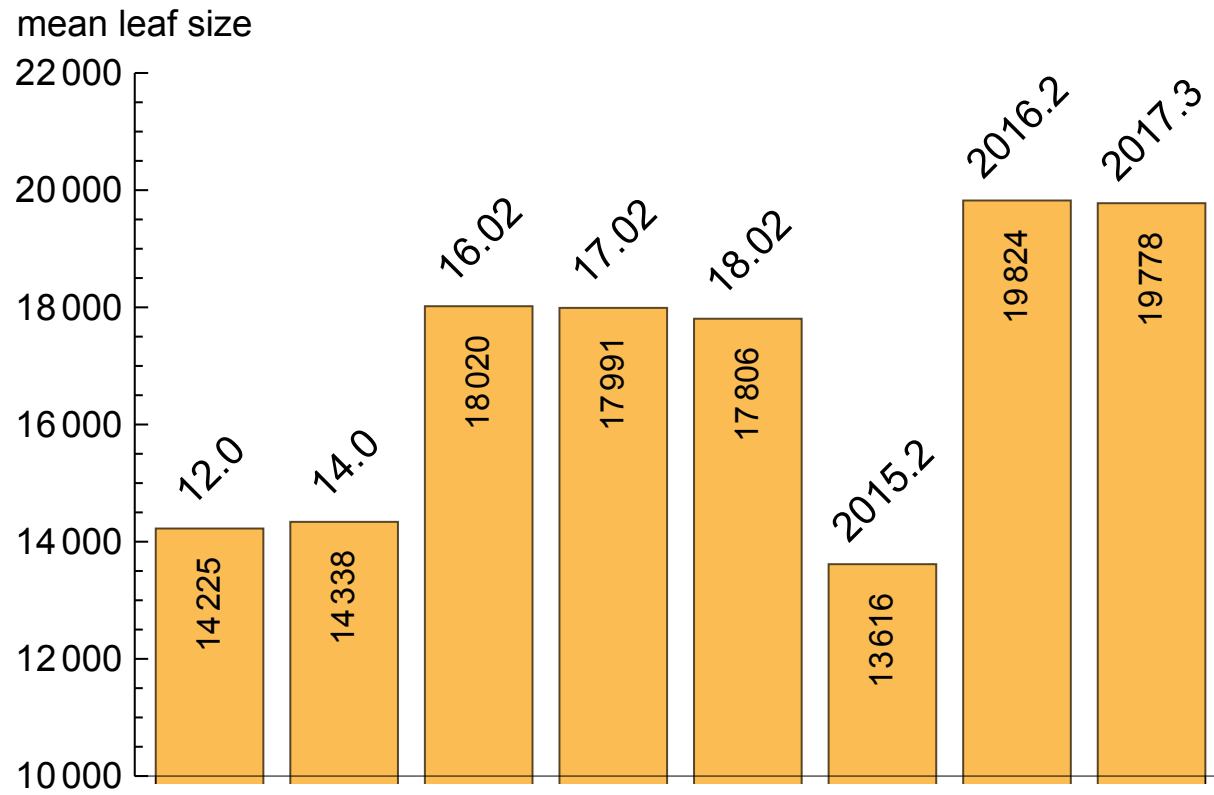
Mean of normalized leaf size over different versions

mean normalized leaf size



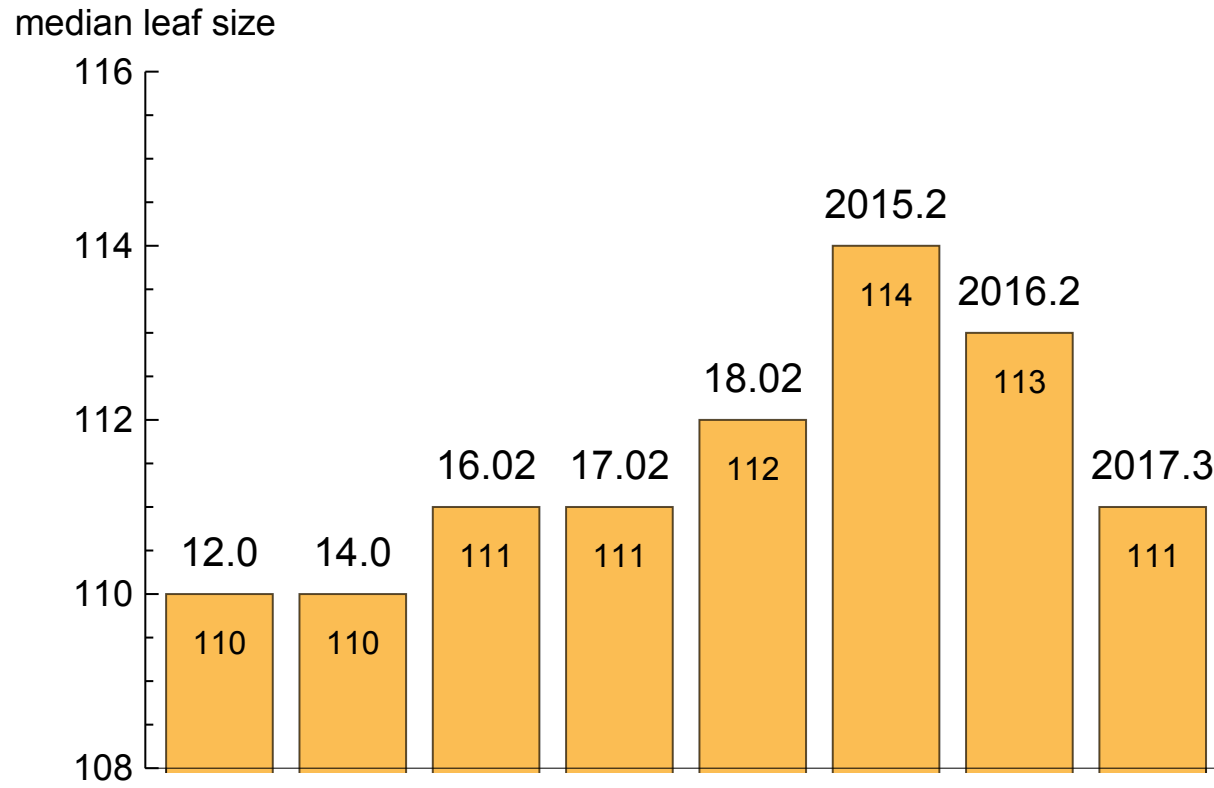
This figure show the mean leaf size for each version.

Mean leaf size over different versions



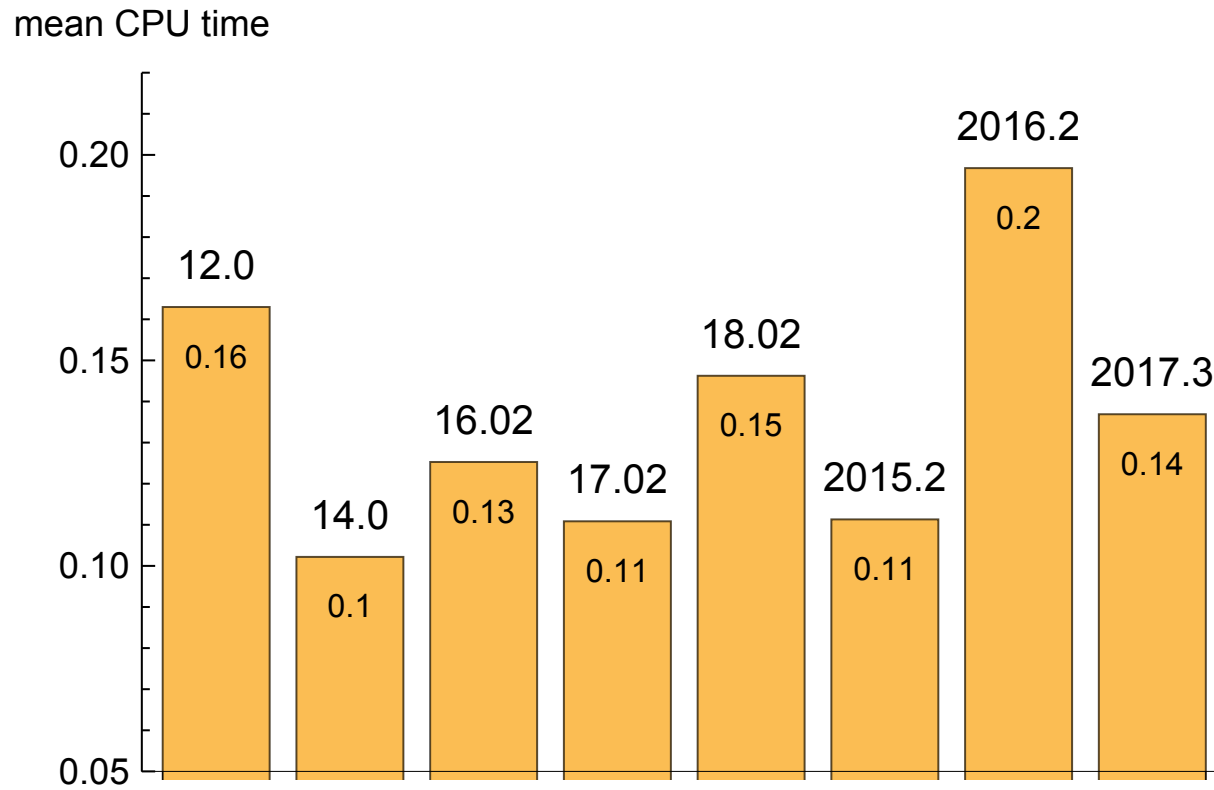
This figure show the median leaf size for each version.

Median leaf size over different versions



This figure show the mean CPU time (sec) for each version.

Mean CPU time (sec) over different versions



2 Summary tables for each test case

2.1 Independent_test_suites\HebischProblems

Table 3: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.03 32	A 0.03 32	A 0.02 32	A 0.54 32	A 0.73 32	A 0.02 32	A 1.16 32	A 0.02 32
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	B 0.01 13	B 0.01 13	B 0.01 13	B 0.04 13	B 0.03 13	B 0. 13	B 0.26 13	B 0. 13
5	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0.02 13	A 0.02 13	A 0.01 13	A 0. 13
6	A 0.02 10	A 0.02 10	A 0.02 10	A 0.02 10	A 0.03 10	A 0.02 10	A 0.18 10	A 0.03 10
7	A 0.02 10	A 0.02 10	A 0.02 10	A 0.03 10	A 0.06 10	A 0.02 10	A 0.19 10	A 0.02 10

2.2 Independent_test_suites\ApostolProblems

Table 4: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.01 10	A 0. 10	A 0. 10	A 0.01 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
2	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0.01 15	A 0. 15
3	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18	A 0.01 18	A 0.02 18
4	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15	A 0. 15
5	A 0.01 13	A 0. 13	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13
6	A 0.07 11	A 0.05 11	A 0.01 14	A 0.01 14	A 0.02 14	A 0. 14	A 0.04 14	A 0. 14
7	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
8	A 0.01 7	A 0.01 7	A 0.01 7	A 0.01 7	A 0.02 7	A 0. 7	A 0.01 7	A 0. 7

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Table 4 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
9	A 0.02 13	A 0.02 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
10	A 0.02 7	A 0.02 7	A 0.02 7	A 0. 7	A 0. 7	A 0. 7	A 0.02 7	A 0.02 7
11	A 0.03 11	A 0.03 11	A 0.02 11	A 0.03 11	A 0.03 11	A 0. 11	A 0.05 11	A 0. 11
12	A 0.01 9	A 0.01 9	A 0.01 9	A 0.01 9	A 0. 9	A 0.02 9	A 0. 9	A 0. 9
13	A 0.01 10	A 0.01 10	A 0.01 10	A 0.01 10	A 0.03 10	A 0.02 10	A 0.24 10	A 0. 10
14	B 0.01 32	B 0.01 32	B 0.01 32	B 0.01 32	B 0. 32	B 0. 32	B 0.02 32	B 0.02 32
15	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0.02 13
16	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0.02 10	A 0. 10	A 0. 10
17	B 0.01 27	B 0. 27	B 0. 27	B 0. 27	B 0. 27	B 0.02 27	B 0. 27	B 0. 27
18	A 0.02 12	A 0.02 12	A 0.02 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	A 0.01 14	A 0.01 14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
22	A 0. 9	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
23	A 0. 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
24	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
26	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
27	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
28	A 0.01 11	A 0.01 11	A 0.01 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
29	A 0. 11	A 0. 11	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
30	A 0.06 18	A 0.04 18	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
31	A 0.04 17	A 0.03 17	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
32	A 0.04 24	A 0.04 24	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
33	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
34	A 0.09 23	A 0.08 23	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
35	A 0.04 37	A 0.04 37	A 0.03 37	A 0.01 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37
36	A 0.01 11	A 0.01 11	A 0.01 11	A 0. 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11

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Table 4 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
37	A 0.05 11	A 0.03 11	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
38	A 0.04 18	A 0.03 18	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
39	A 0.01 69	A 0. 69	A 0.01 69	A 0. 69	A 0.02 69	A 0. 69	A 0.02 69	A 0. 69
40	A 0.01 22	A 0. 22	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
41	A 0.28 168	A 0.42 168	A 0.03 168	A 0.04 168	A 0.19 168	A 0.05 168	A 0.73 168	A 0.06 168
42	A 0.01 7	A 0.04 7	A 0. 7	A 0. 7	A 0.02 7	A 0. 7	A 0.03 7	A 0. 7
43	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
44	A 0.01 12	A 0.02 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12	A 0.03 12	A 0. 12
45	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
46	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.02 21	A 0. 21	A 0. 21	A 0. 21
47	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
48	B 0. 52	B 0.01 52	B 0. 52	B 0. 52	B 0. 52	B 0.02 52	B 0.03 52	B 0. 52
49	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
50	B 0. 32	B 0. 32	B 0. 32	B 0. 32	B 0. 32	B 0. 32	B 0. 32	B 0. 32
51	B 0. 107	B 0. 107	B 0. 107	B 0. 107	B 0. 107	B 0. 107	B 0. 107	B 0. 107
52	A 0. 5	A 0.01 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5
53	A 0.01 49	A 0.01 49	A 0.01 49	A 0. 49	A 0.02 49	A 0. 49	A 0. 49	A 0. 49
54	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0.02 9
55	A 0.02 13	A 0.02 13	A 0.02 13	A 0.01 13	A 0.05 13	A 0.01 13	A 0.16 13	A 0.02 13
56	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
57	A 0.01 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.01 16	A 0. 16
58	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14
59	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
60	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5
61	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
62	A 0.03 36	A 0.03 36	A 0.02 36	A 0.02 36	A 0.03 36	A 0.02 36	A 0.04 36	A 0.05 36
63	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0.01 23	A 0. 23	A 0. 23
64	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4

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Table 4 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
65	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11	A 0. 11
66	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
67	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
68	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0.02 7
69	A 0. 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
70	A 0.01 8	A 0.01 8	A 0.01 8	A 0.01 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
71	A 0.03 14	A 0.03 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0.04 14	A 0. 14
72	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14	A 0. 14
73	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.02 12	A 0.02 12	A 0.01 12	A 0.02 12
74	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
75	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
76	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12	A 0. 12	A 0. 12
77	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0.02 19
78	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
79	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
80	A 0.01 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0. 40	A 0. 40
81	A 0. 41	A 0.01 41	A 0.01 41	A 0. 41	A 0. 41	A 0.02 41	A 0. 41	A 0. 41
82	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14	A 0. 14
83	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
84	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0.01 20	A 0. 20
85	A 0.1 24	A 0.24 24	A 0.04 24	A 0.04 24	A 0.08 24	A 0.03 24	A 0.21 24	A 0.05 24
86	A 0. 21	A 0.02 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0.04 21	A 0.02 21
87	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0.02 15
88	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0.01 10	A 0.02 10
89	A 0. 11	A 0.02 11	A 0. 11	A 0. 11	A 0.02 11	A 0. 11	A 0.02 11	A 0. 11
90	A 0. 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16
91	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
92	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16

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Table 4 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
93	A 0.01 34	A 0.02 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0.02 34	A 0. 34
94	A 0.02 30	A 0.06 30	A 0.01 30	A 0.03 26	A 0.06 26	A 0.03 26	A 0.2 26	A 0.03 26
95	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
96	A 0.01 7	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
97	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
98	A 0. 16	A 0. 16	A 0. 16	A 0.01 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16
99	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
100	A 0.02 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
101	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0.02 4	A 0. 4	A 0. 4
102	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
103	A 0.02 62	A 0.02 62	A 0.01 62	A 0.02 62	A 0.01 62	A 0.02 62	A 0.03 64	A 0. 62
104	A 0.02 122	A 0.01 122	A 0.01 122	A 0.01 122	A 0. 122	A 0.01 125	A 0.01 125	A 0.02 125
105	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 29	A 0. 29	A 0. 29
106	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0.02 14	A 0.02 14	A 0. 14	A 0.02 14
107	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0.02 14	A 0. 14	A 0.02 14
108	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20
109	A 0.01 18	A 0.02 18	A 0.02 18	A 0.02 18	A 0.02 18	A 0.02 18	A 0. 18	A 0. 18
110	A 0.01 19	A 0.01 19	A 0.01 19	A 0.01 19	A 0. 19	A 0.01 19	A 0. 19	A 0. 19
111	A 0.01 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
112	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37
113	A 0.04 19	A 0.03 19	A 0.03 19	A 0.02 19	A 0. 19	A 0.02 19	A 0. 19	A 0. 19
114	B 0.06 266	B 0.21 266	B 0.06 266	B 0.24 266	B 0.06 266	B 0.05 266	B 0.26 266	B 0.05 266
115	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
116	A 0.01 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0.01 20	A 0. 20
117	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.02 21	A 0.02 21	A 0. 21	A 0. 21
118	A 0.01 24	A 0.02 24	A 0.02 24	A 0.02 24	A 0.02 24	A 0.02 24	A 0.01 24	A 0. 24
119	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
120	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15

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Table 4 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
121	A 0.01 13	A 0.02 13	A 0.02 13	A 0.01 13	A 0. 13	A 0. 13	A 0.01 13	A 0. 13
122	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
123	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0. 21	A 0.02 21	A 0.01 21	A 0. 21
124	A 0.02 39	A 0.02 39	A 0.02 39	A 0.02 39	A 0.01 39	A 0.02 39	A 0.01 39	A 0. 39
125	A 0.01 11	A 0.01 11	A 0.01 11	A 0.01 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11
126	A 0.01 18	A 0.02 18	A 0.02 18	A 0.01 18	A 0.02 18	A 0. 18	A 0.01 18	A 0. 18
127	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0.02 15	A 0.02 15	A 0. 15	A 0. 15
128	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
129	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15
130	A 0.01 18	A 0.01 18	A 0.02 18	A 0.02 18	A 0.02 18	A 0.01 18	A 0. 18	A 0.02 18
131	A 0.01 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0.02 28	A 0. 28	A 0. 28	A 0.02 28
132	A 0. 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
133	A 0.01 11	A 0.01 11	A 0.01 11	A 0.01 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11
134	A 0.01 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
135	A 0. 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0. 17	A 0.01 17	A 0. 17	A 0. 17
136	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
137	A 0.01 58	A 0.02 58	A 0. 58	A 0.02 58	A 0. 58	A 0. 58	A 0.01 58	A 0. 58
138	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
139	B 0.02 41	C 0.09 119	C 0.02 110	C 0.05 110	C 0.05 110	C 0.03 110	C 0.09 110	C 0.02 110
140	A 0.05 20	A 0.07 20	A 0.04 20	A 0.02 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
141	A 0.02 30	A 0.02 30	A 0.02 30	A 0.01 30	A 0.02 30	A 0. 30	A 0. 30	A 0.02 30
142	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16
143	A 0.02 16	A 0.02 16	A 0.02 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16
144	A 0.02 15	A 0.03 15	A 0.03 15	A 0.02 15	A 0.02 15	A 0.02 15	A 0. 15	A 0.02 15
145	A 0.06 16	A 0.08 16	A 0.08 16	A 0.03 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
146	A 0.15 14	A 0.2 14	A 0.07 14	A 0.02 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14
147	A 0.07 25	A 0.07 25	A 0.07 25	A 0.03 25	A 0.02 25	A 0. 25	A 0.01 25	A 0. 25
148	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23	A 0. 23	A 0. 23	A 0. 23

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Table 4 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
149	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
150	A 0.01 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30	A 0. 30	A 0. 30
151	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22	A 0. 22
152	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0.02 21	A 0. 21	A 0. 21
153	A 0.01 21	A 0.01 21	A 0. 21	A 0.01 21	A 0.02 21	A 0. 21	A 0. 21	A 0. 21
154	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12	A 0. 12	A 0. 12	A 0. 12
155	A 0.01 88	A 0.01 88	A 0.01 88	A 0.01 88	A 0. 88	A 0. 88	A 0.01 88	A 0. 88
156	C 0.02 13	C 0.01 13	C 0. 13	C 0.01 13	C 0. 13	C 0.02 13	C 0. 13	C 0.02 13
157	A 0.01 15	A 0.01 15	A 0.02 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
158	B 0. 8	B 0. 8	B 0. 8	B 0. 8	B 0.01 8	B 0. 8	B 0. 8	B 0. 8
159	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0.02 9	A 0. 9	A 0. 9
160	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
161	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0.01 15	A 0. 15
162	A 0.01 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0. 17	A 0.02 17	A 0. 17	A 0. 17
163	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
164	A 0.01 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0.02 22	A 0. 22	A 0. 22
165	A 0.06 19	A 0.05 19	A 0.02 19	A 0.11 19	A 0.03 19	A 0.02 19	A 0.12 19	A 0.03 19
166	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
167	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
168	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20
169	B 0.19 111	B 0.12 111	B 0.08 111	B 0.04 111	B 0.01 111	B 0.02 111	B 0.01 111	B 0. 111
170	B 0. 9	B 0.01 9	B 0.01 9	B 0. 9	B 0. 9	B 0. 9	B 0. 9	B 0. 9
171	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0.02 17	A 0. 17	A 0. 17	A 0. 17
172	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
173	A 0. 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12
174	A 0.01 23	A 0.01 23	A 0.01 23	A 0.01 23	A 0. 23	A 0.02 23	A 0.01 23	A 0.02 23
175	A 0.05 116	A 0.03 116	A 0.02 116	A 0.02 116	A 0.02 116	A 0.02 116	A 0.04 116	A 0.02 116

2.3 Independent_test_suites\BondarenkoProblems

Table 5: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.35 21	A 0.26 21	A 0.05 21	A 0.28 21	A 0.14 21	A 0.03 21	A 0.33 21	A 0.03 21
2	B 0.05 50	B 0.01 50	B 0.01 50	B 0.02 50	B 0.02 50	B 0. 50	B 0.04 50	B 0. 50
3	A 0.01 16	A 0.01 16	A 0.02 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
4	A 0.04 42	A 0.02 42	A 0.01 42	A 0.02 42	A 0.02 42	A 0.01 42	A 0.03 42	A 0. 42
5	A 0.12 42	A 0.1 42	A 0.07 42	A 0.02 42	A 0. 42	A 0.01 42	A 0. 42	A 0. 42
6	C 0.08 36	C 0.02 36	C 0.02 38	C 0.02 38	C 0.03 38	C 0.02 38	C 0.04 38	C 0.02 38
7	C 0.57 486	C 0.42 486	C 0.08 486	C 0.22 486	C 0.09 486	C 0.06 486	C 0.31 486	C 0.06 486
8	C 0.02 513	C 0.02 513	C 0.02 513	C 0.02 513	C 0.02 513	C 0.02 513	C 0.01 513	C 0.02 513
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	A 0.01 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0. 34	A 0. 34	A 0.02 34
11	B 0.16 175	B 0.29 175	B 0.24 175	B 0.24 175	B 0.17 175	B 0.19 175	B 0.08 175	B 0.08 175
12	A 0.01 60	A 0.01 60	A 0.01 60	A 0.01 60	A 0. 60	A 0.02 60	A 0.01 60	A 0. 60
13	C 0.04 109	C 0.04 109	C 0.03 73	C 0.04 73	C 0.08 73	C 0.05 73	C 0.35 73	C 0.05 73
14	C 0.02 105	C 0.02 105	C 0.02 73	C 0.02 73	C 0.03 73	C 0.02 73	C 0.03 73	C 0.03 73
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	B 0.02 298	B 0.02 298	B 0.02 298	B 0.02 298	B 0.02 298	B 0.02 298	B 0.01 298	B 0.02 298
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	B 0.04 49	B 0.04 49	B 0.02 49	B 0.02 49	B 0.02 49	B 0.02 49	B 0.02 49	B 0.02 49
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	A 0.12 95	A 0.1 116	A 0.25 116	A 0.1 116	A 0.03 116	A 0.03 116	A 0.06 116	A 0.02 116
22	A 0.07 27	A 0.06 27	A 0.06 27	A 0.02 27	A 0.02 27	A 0. 27	A 0.01 27	A 0.02 27
23	A 0.05 20	A 0.05 20	A 0.02 20	A 0.01 20	A 0. 20	A 0.02 20	A 0.01 20	A 0. 20
24	B 0.27 372	B 0.2 372	B 0.13 372	B 0.14 372	B 0.17 372	B 0.14 372	B 0.52 372	B 0.14 372
25	A 0.23 77	A 0.07 77	A 0.05 77	A 0.04 77	A 0.03 77	A 0.03 77	A 0.04 77	A 0.03 77

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Table 5 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
26	B 0.21 392	B 0.25 392	B 0.25 392	B 0.23 392	B 0.2 392	B 0.23 392	B 0.09 392	B 0.16 392
27	C 0.07 83	C 0.05 83	C 0.04 83	C 0.05 83	C 0.05 83	C 0.03 83	C 0.08 83	C 0.03 83
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	C 0.12 698	C 0.17 698	C 0.06 698	C 0.06 730	C 0.06 698	C 0.05 730	C 0.12 698	C 0.03 730
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	C 0.03 252	C 0.03 252	C 0.03 252	C 0.02 252	C 0.03 252	C 0.03 252	C 0.02 252	C 0.02 252
33	A 0.21 113	A 0.24 113	A 0.14 113	A 0.12 116	A 0.09 116	A 0.08 116	A 0.1 116	A 0.06 116
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	A 0.7 171	A 0.45 171	A 0.28 171	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.4 Independent_test_suites\BronsteinProblems

Table 6: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.07 29	A 0.05 29	A 0.04 29	A 0.04 29	A 0.05 29	A 0.03 29	A 0.06 29	A 0.03 29
2	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
3	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
4	A 0.09 158	A 0.02 158	A 0.02 158	A 0.02 158	A 0.01 158	A 0.01 158	A 0.02 158	A 0.02 158
5	A 0.04 13	A 0.02 13	A 0.02 13	A 0.02 13	A 0.02 13	A 0.02 13	A 0.01 13	A 0.03 13
6	C 1.11 1290	C 1.01 1290	C 0.26 1290	C 0.26 1290	C 0.55 1290	C 0.28 1290	C 1.03 1290	C 0.4 1290
7	A 0.02 17	A 0.02 17	A 0.01 17	A 0.01 17	A 0.02 17	A 0. 17	A 0. 17	A 0.02 17
8	A 0.05 43	A 0.05 43	A 0.04 43	A 0.04 43	A 0.03 43	A 0.05 43	A 0.05 43	A 0.05 43
9	A 0.01 3	A 0.01 3	A 0.01 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	A 0.01 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12

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Table 6 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	A	0.04	23	A	0.05	23	A	0.02	23	A	0.02	23	A	0.02	23	A	0.02	23	A	0.04	23	A	0.02	23

2.5 Independent_test_suites\CharlwoodProblems

Table 7: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.06	93	B	0.07	93	B	0.05	93	B	0.05	92	B	0.06	93	B	0.04	93	B	0.03	101	B	0.03	101
2	A	0.14	16	A	0.09	16	A	0.05	16	A	0.05	16	A	0.08	16	A	0.04	16	A	0.07	16	A	0.05	16
3	B	0.86	251	B	0.65	251	B	0.38	251	B	0.4	251	B	0.27	254	B	0.11	254	B	0.1	254	B	0.11	254
4	B	0.14	426	B	0.19	426	B	0.18	426	B	0.17	426	B	0.16	426	B	0.17	426	B	0.07	426	B	0.12	426
5	C	0.45	315	C	0.35	315	C	0.34	315	C	0.24	315	C	0.12	315	C	0.15	315	C	0.1	315	C	0.11	315
6	A	0.04	64	A	0.04	64	A	0.04	64	A	0.02	64	A	0.	64	A	0.02	64	A	0.01	64	A	0.02	64
7	A	0.07	12	A	0.05	12	A	0.04	12	A	0.04	12	A	0.02	12	A	0.01	12	A	0.01	12	A	0.02	12
8	B	0.19	1605	B	0.2	1605	B	0.16	1607	B	0.14	1607	B	0.11	1606	B	0.13	1606	B	0.17	1606	B	0.14	1606
9	A	0.04	42	A	0.04	42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	C	0.12	439	C	0.09	439	C	0.08	439	C	0.08	439	C	0.06	439	C	0.11	439	C	0.06	427	C	0.09	427
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	C	0.49	89	C	0.1	89	C	0.06	89	C	0.06	89	C	0.05	89	C	0.07	89	C	0.13	89	C	0.05	89

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Table 7 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
19	A 0.02 21	A 0.02 21	A 0.01 21	A 0.02 21	A 0.02 21	A 0.01 21	A 0.03 21	A 0.02 21
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	A 0.05 35	A 0.04 35	A 0.04 35	A 0.04 35	A 0.03 35	A 0.04 35	A 0.03 35	A 0.03 35
28	C 0.14 54	C 0.13 54	C 0.16 54	C 0.36 54	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	C 0.13 56	C 0.12 56	C 0.12 56	C 0.1 56	F 0 0	F 0 0	F 0 0	F 0 0
32	A 0.08 20	A 0.06 20	A 0.05 20	A 0.05 20	A 0.05 20	A 0.04 20	A 0.03 20	A 0.05 20
33	C 0.09 119	C 0.06 119	C 0.05 119	C 0.04 119	C 0.03 119	C 0.05 119	C 0.06 119	C 0.05 119
34	A 0.05 29	A 0.05 29	A 0.04 29	A 0.04 29	A 0.05 29	A 0.03 29	A 0.02 29	A 0.02 29
35	C 0.67 97	C 0.43 97	C 0.44 97	C 0.28 97	F 0 0	F 0 0	F 0 0	F 0 0
36	A 0.04 39	A 0.04 39	A 0.03 39	A 0.03 39	A 0.02 39	A 0.03 39	A 0.02 39	A 0.03 39
37	A 0.02 14	A 0.02 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
38	C 0.44 112	C 0.03 112	C 0.03 112	C 0.03 112	C 0.05 112	C 0.02 112	C 0.02 162	C 0.03 162
39	C 0.08 112	C 0.02 112	C 0.02 112	C 0.02 112	C 0.02 112	C 0.02 112	C 0.01 112	C 0.03 112
40	B 0.16 54	B 0.14 54	B 0.14 54	B 0.11 54	B 0.11 54	B 0.09 54	B 0.08 54	B 0.25 54
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	B 0.17 91	B 0.14 91	B 0.13 105	B 0.11 105	B 0.09 105	B 0.09 105	B 0.08 105	B 0.08 105
43	A 0.03 37	A 0.03 37	A 0.03 37	A 0.02 37	A 0.02 37	A 0.02 37	A 0.01 37	A 0. 37
44	B 0.38 67	B 0.33 67	B 0.32 67	B 0.16 67	B 0.05 67	B 0.05 67	B 0.04 67	B 0.06 67
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	C 1.52 3134	C 1.16 3134	C 1.01 3134	C 0.85 3134	C 0.52 5161	C 0.73 5161	C 0.46 7249	C 0.76 7249

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Table 7 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
47	B 0.05 510	B 0.04 510	B 0.04 510	B 0.04 510	B 0.03 510	B 0.05 508	B 0.03 510	B 0.05 508
48	A 0.03 28	A 0.03 28	A 0.03 28	A 0.02 28	A 0.03 28	A 0.03 28	A 0.01 28	A 0.02 28
49	B 0.09 138	B 0.08 138	B 0.08 138	B 0.07 138	B 0.06 141	B 0.08 138	B 0.05 138	B 0.08 138
50	B 0.1 198	B 0.08 198	B 0.08 198	B 0.08 198	B 0.08 198	B 0.08 198	B 0.04 198	B 0.06 198

2.6 Independent_test_suites\HearnProblems

Table 8: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
2	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
3	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
4	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
5	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
6	A 0.01 25	A 0.01 25	A 0.02 25	A 0.01 25	A 0.02 25	A 0.02 25	A 0.01 25	A 0. 25
7	A 0.01 66	A 0.01 66	A 0.01 66	A 0.01 66	A 0.02 66	A 0.02 66	A 0.01 66	A 0. 66
8	A 0.01 35	A 0.01 35	A 0. 35	A 0.01 35	A 0.02 35	A 0. 35	A 0.01 35	A 0. 35
9	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
10	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0.02 17	A 0. 17	A 0. 17
11	A 0.02 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36
12	A 0.01 69	A 0.02 69	A 0.02 69	A 0.02 69	A 0.02 69	A 0.02 69	A 0. 69	A 0.02 69
13	A 0.01 44	A 0.01 44	A 0.01 44	A 0.01 44	A 0.02 44	A 0. 44	A 0.01 44	A 0. 44
14	A 0.01 41	A 0.02 41	A 0.02 41	A 0.02 41	A 0.01 41	A 0.02 41	A 0. 41	A 0. 41
15	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
16	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0. 35	A 0. 35	A 0.02 35
17	A 0.01 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0. 32	A 0.02 32	A 0.01 32	A 0. 32

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Table 8 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
18	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58
19	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.02	58	A	0.	58	A	0.	58
20	A	0.01	54	A	0.	54	A	0.	54	A	0.01	54	A	0.02	54	A	0.02	54	A	0.01	54	A	0.	54
21	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
22	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
23	A	0.01	73	A	0.01	73	A	0.01	73	A	0.01	73	A	0.	73	A	0.	73	A	0.01	73	A	0.02	73
24	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
25	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
26	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.02	19	A	0.	19	A	0.	19	A	0.	19
27	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30
28	A	0.01	19	A	0.01	19	A	0.01	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.	29	A	0.01	29	A	0.01	29	A	0.01	29
30	A	0.02	43	A	0.01	43	A	0.01	43	A	0.01	43	A	0.	43	A	0.01	43	A	0.01	43	A	0.01	43
31	A	0.01	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
32	B	0.01	22	B	0.01	22	B	0.01	22	B	0.01	22	B	0.	22	B	0.	22	B	0.	22	B	0.	22
33	A	0.02	58	A	0.02	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58
34	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54
35	A	0.	92	A	0.	92	A	0.	92	A	0.	92	A	0.	92	A	0.02	92	A	0.	92	A	0.	92
36	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35
37	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.02	36	A	0.	36	A	0.	36	A	0.	36
38	A	0.01	111	A	0.01	111	A	0.	111	A	0.01	111	A	0.	111	A	0.	111	A	0.	111	A	0.	111
39	A	0.06	56	A	0.06	56	A	0.06	56	A	0.05	56	A	0.05	56	A	0.05	56	A	0.05	56	A	0.02	56
40	A	0.05	56	A	0.05	56	A	0.05	56	A	0.05	56	A	0.05	56	A	0.05	56	A	0.05	56	A	0.02	56
41	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54
42	A	0.04	60	A	0.05	60	A	0.05	60	A	0.05	60	A	0.05	60	A	0.05	60	A	0.05	60	A	0.02	60
43	A	0.04	60	A	0.04	60	A	0.05	60	A	0.04	60	A	0.05	60	A	0.03	60	A	0.02	60	A	0.03	60
44	B	0.09	386	B	0.11	386	B	0.09	386	B	0.09	386	B	0.08	386	B	0.09	386	B	0.09	386	B	0.06	386
45	B	0.08	386	B	0.09	386	B	0.08	386	B	0.08	386	B	0.08	386	B	0.09	386	B	0.09	386	B	0.05	386

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Table 8 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
46	A	0.01	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.01	66	A	0.02	66
47	A	0.14	111	A	0.15	111	A	0.12	111	A	0.12	111	A	0.16	111	A	0.11	111	A	0.09	111	A	0.11	114
48	A	0.2	95	A	0.2	95	A	0.18	95	A	0.17	95	A	0.17	95	A	0.19	95	A	0.14	95	A	0.22	98
49	C	0.	22	C	0.	22	C	0.01	20	C	0.01	20	C	0.02	20	C	0.	20	C	0.	20	C	0.	20
50	A	0.	66	A	0.	66	A	0.	66	A	0.	66	A	0.	66	A	0.	66	A	0.	66	A	0.	66
51	C	0.01	30	C	0.02	30	C	0.01	28	C	0.01	28	C	0.02	28	C	0.02	28	C	0.01	28	C	0.02	28
52	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.02	41	A	0.	41	A	0.	41	A	0.	41
53	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
54	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.02	14
55	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
56	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.	34	A	0.	34	A	0.01	34	A	0.02	34
57	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
58	A	0.	104	A	0.	104	A	0.	104	A	0.	104	A	0.02	104	A	0.	104	A	0.	104	A	0.	104
59	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
60	B	0.	9	B	0.	9	B	0.	9	B	0.01	9	B	0.	9	B	0.	9	B	0.	9	B	0.	9
61	B	0.	11	B	0.	11	B	0.	11	B	0.	11	B	0.02	11	B	0.	11	B	0.	11	B	0.	11
62	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
63	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.02	15	A	0.	15	A	0.	15	A	0.	15
64	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.02	13
65	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
66	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48
67	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30
68	A	0.	47	A	0.	47	A	0.	47	A	0.	47	A	0.	47	A	0.02	47	A	0.	47	A	0.	47
69	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.02	58
70	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.02	24	A	0.	24	A	0.	24	A	0.	24
71	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
72	A	0.01	37	A	0.01	37	A	0.	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
73	A	0.01	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45

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Table 8 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
74	A	0.01	32	A	0.02	32	A	0.01	32	A	0.02	32	A	0.02	32	A	0.02	32	A	0.	32	A	0.	32
75	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5
77	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3
78	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6
79	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
80	A	0.02	26	A	0.02	26	A	0.02	26	A	0.01	26	A	0.02	26	A	0.	26	A	0.	26	A	0.02	26
81	A	0.01	7	A	0.	7	A	0.01	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
82	A	0.01	9	A	0.01	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
83	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
84	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
85	A	0.	11	A	0.	11	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	A	0.02	16	A	0.02	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
88	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
89	A	0.	11	A	0.	11	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
90	A	0.04	3	B	0.03	8	B	0.01	8	B	0.	8	B	0.	8	B	0.	8	B	0.	8	B	0.	8
91	A	0.02	7	A	0.01	7	A	0.01	7	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.02	12
92	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
93	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
94	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
95	A	0.	37	A	0.	37	A	0.	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37
96	A	0.	23	A	0.	23	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
97	A	0.01	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8
98	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
99	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
100	A	0.03	37	A	0.02	37	A	0.02	37	A	0.01	37	A	0.02	37	A	0.	37	A	0.	37	A	0.	37
101	A	0.02	23	A	0.01	23	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27

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Table 8 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
102	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3
103	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3
104	A	0.01	11	A	0.	11	A	0.	11	A	0.01	11	A	0.	11	A	0.02	11	A	0.	11	A	0.	11
105	A	0.01	12	A	0.01	12	A	0.01	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
106	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
107	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
108	A	0.01	11	A	0.01	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
109	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
110	B	0.	29	B	0.	29	B	0.	29	B	0.01	29	B	0.	29	B	0.	29	B	0.	29	B	0.	29
111	A	0.01	21	A	0.01	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
112	A	0.01	19	A	0.01	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
113	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
114	A	0.	22	A	0.	22	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30
115	A	0.01	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
116	A	0.01	22	A	0.01	22	A	0.01	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30
117	A	0.01	11	A	0.01	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
118	A	0.01	5	A	0.	5	A	0.01	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5
119	A	0.01	9	A	0.01	9	A	0.01	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
120	A	0.01	11	A	0.01	11	A	0.01	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
121	A	0.03	11	A	0.03	11	A	0.03	11	A	0.01	11	A	0.	11	A	0.01	11	A	0.	11	A	0.	11
122	A	0.02	39	A	0.02	39	A	0.02	39	A	0.01	39	A	0.	39	A	0.	39	A	0.	39	A	0.02	39
123	A	0.07	43	A	0.06	43	A	0.05	43	A	0.02	43	A	0.	43	A	0.	43	A	0.	43	A	0.02	43
124	B	0.01	158	B	0.01	158	B	0.01	158	B	0.	158	B	0.	158	B	0.	158	B	0.	158	B	0.	158
125	A	0.03	12	A	0.03	12	A	0.03	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
126	B	0.02	158	B	0.01	158	B	0.01	158	B	0.	158	B	0.	158	B	0.	158	B	0.	158	B	0.	158
127	A	0.01	22	A	0.01	22	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
128	A	0.06	138	A	0.06	138	A	0.06	138	A	0.05	138	A	0.05	138	A	0.05	138	A	0.04	138	A	0.05	138
129	A	0.09	237	A	0.08	237	A	0.08	237	A	0.07	237	A	0.08	237	A	0.06	237	A	0.06	237	A	0.08	237

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Table 8 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
130	A	0.01	20	A	0.01	20	A	0.01	20	A	0.01	20	A	0.02	20	A	0.02	20	A	0.	20	A	0.02	20
131	A	0.05	12	A	0.05	12	A	0.05	12	A	0.02	12	A	0.02	12	A	0.	12	A	0.	12	A	0.	12
132	A	0.01	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
133	A	0.06	15	B	0.04	19	B	0.01	19	B	0.01	19	B	0.	19	B	0.	19	B	0.	19	B	0.	19
134	B	0.03	69	B	0.03	69	B	0.03	69	B	0.02	69	B	0.01	69	B	0.02	69	B	0.01	69	B	0.03	69
135	B	0.03	71	B	0.02	71	B	0.02	71	B	0.02	71	B	0.03	71	B	0.02	71	B	0.01	71	B	0.03	71
136	A	0.04	137	A	0.03	137	A	0.04	137	A	0.03	137	A	0.03	137	A	0.03	137	A	0.02	137	A	0.03	149
137	A	0.04	142	A	0.04	142	A	0.03	142	A	0.03	142	A	0.03	142	A	0.03	142	A	0.02	142	A	0.05	154
138	A	0.06	225	A	0.05	225	A	0.05	225	A	0.05	225	A	0.05	225	A	0.05	225	A	0.04	225	A	0.06	273
139	A	0.06	231	A	0.05	231	A	0.05	231	A	0.05	231	A	0.05	231	A	0.05	231	A	0.03	231	A	0.05	279
140	A	0.08	437	A	0.07	431	A	0.07	437	A	0.07	431	A	0.06	431	A	0.08	431	A	0.05	437	A	0.06	421
141	A	0.07	441	A	0.07	447	A	0.07	441	A	0.06	441	A	0.06	441	A	0.08	441	A	0.05	447	A	0.06	437
142	A	0.08	20	A	0.07	20	A	0.08	20	A	0.02	20	A	0.	20	A	0.02	20	A	0.	20	A	0.02	20
143	A	0.07	23	A	0.06	23	A	0.06	23	A	0.03	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
144	A	0.04	64	A	0.04	64	A	0.04	68	A	0.02	68	A	0.	68	A	0.	68	A	0.	68	A	0.	68
145	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
146	A	0.08	11	B	0.06	22	B	0.06	22	B	0.03	22	B	0.	22	B	0.	22	B	0.01	22	B	0.02	22
147	A	0.07	143	A	0.06	143	A	0.06	143	A	0.02	143	A	0.01	143	A	0.02	143	A	0.01	143	A	0.02	143
148	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
149	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
150	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3
151	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
152	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
153	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.02	9	A	0.	9	A	0.	9	A	0.	9
154	A	0.01	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.02	31	A	0.01	31	A	0.	31
155	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
156	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
157	A	0.01	22	A	0.	22	A	0.01	22	A	0.01	22	A	0.01	22	A	0.02	22	A	0.	22	A	0.02	22

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Table 8 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
158	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.02	14	A	0.	14	A	0.	14	A	0.	14
159	A	0.	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102
160	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	20
161	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.02	15	A	0.	15	A	0.	15
162	A	0.03	21	A	0.02	21	A	0.02	21	A	0.02	21	A	0.02	21	A	0.02	21	A	0.01	21	A	0.03	21
163	A	0.04	79	A	0.04	79	A	0.04	79	A	0.04	79	A	0.03	79	A	0.03	79	A	0.02	79	A	0.05	79
164	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
165	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.02	12	A	0.	12	A	0.	12	A	0.	12
166	A	0.01	8	A	0.02	8	A	0.	8	C	0.01	12	C	0.02	12	C	0.	12	C	0.	12	C	0.02	12
167	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
168	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
169	A	0.13	23	A	0.1	23	A	0.11	23	A	0.16	23	A	0.14	23	A	0.14	23	A	0.13	23	A	0.14	23
170	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
171	A	0.02	12	A	0.01	12	A	0.01	12	A	0.01	12	A	0.	12	A	0.	12	A	0.01	12	A	0.02	12
172	A	0.02	21	A	0.02	21	A	0.02	21	A	0.02	21	A	0.02	21	A	0.02	21	A	0.01	21	A	0.02	21
173	A	0.01	28	A	0.	28	A	0.	28	A	0.	14	A	0.	17	A	0.02	17	A	0.01	17	A	0.02	17
174	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
175	A	0.01	48	A	0.01	48	A	0.01	48	A	0.01	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48
176	B	0.02	305	B	0.02	305	B	0.01	305	B	0.01	305	B	0.	305	B	0.	305	B	0.01	305	B	0.	305
177	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
178	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.02	21	A	0.	21	A	0.	21
179	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.02	32	A	0.01	32	A	0.02	32
180	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.01	28	A	0.02	28
181	A	0.02	37	A	0.01	60	A	0.01	60	A	0.01	60	A	0.02	60	A	0.	60	A	0.01	60	A	0.02	60
182	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.02	13	A	0.	13	A	0.	13	A	0.02	13
183	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.02	21	A	0.	21	A	0.02	21
184	A	0.01	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.01	32	A	0.02	32
185	A	0.01	18	A	0.01	18	A	0.01	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.02	18

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Table 8 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
186	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.02	40	A	0.	40	A	0.01	40	A	0.	40
187	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25	A	0.	25	A	0.	25	A	0.	25
188	A	0.	43	A	0.	43	A	0.	43	A	0.	43	A	0.	43	A	0.	43	A	0.	43	A	0.02	43
189	A	0.01	42	A	0.01	42	A	0.	42	A	0.	42	A	0.02	42	A	0.	42	A	0.	42	A	0.	42
190	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.02	11	A	0.	11	A	0.	11	A	0.	11
191	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.02	50	A	0.	50	A	0.	50	A	0.	50
192	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
193	A	0.01	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
194	A	0.01	7	A	0.01	7	A	0.01	7	A	0.01	7	A	0.02	7	A	0.02	7	A	0.01	7	A	0.02	7
195	A	0.02	11	A	0.01	11	A	0.01	11	A	0.01	11	A	0.01	11	A	0.02	11	A	0.01	11	A	0.02	11
196	A	0.02	14	A	0.01	14	A	0.01	14	A	0.01	14	A	0.	14	A	0.	14	A	0.01	14	A	0.02	14
197	A	0.02	23	A	0.02	23	A	0.02	23	A	0.03	23	A	0.02	23	A	0.02	23	A	0.01	23	A	0.02	23
198	A	0.01	15	A	0.01	15	A	0.	15	A	0.01	15	A	0.	15	A	0.02	15	A	0.	15	A	0.	15
199	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3
200	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.02	15	A	0.	15	A	0.	15	A	0.	15
201	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
202	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
203	C	0.41	25	C	0.39	25	C	0.04	25	C	0.08	25	C	0.16	25	C	0.08	25	C	0.27	25	C	0.02	25
204	B	0.01	39	B	0.02	39	B	0.02	39	B	0.02	39	B	0.02	39	B	0.02	39	B	0.01	39	B	0.02	39
205	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
206	A	0.02	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.	66	A	0.01	66	A	0.	66
207	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.	52	A	0.02	52	A	0.	52	A	0.02	52
208	A	0.01	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.02	74	A	0.02	74	A	0.	74	A	0.02	74
209	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.02	20	A	0.	20	A	0.	20
210	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25	A	0.	25	A	0.	25
211	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.01	47	A	0.03	47
212	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.	70	A	0.	70	A	0.	70	A	0.	70
213	A	0.02	56	A	0.02	56	A	0.02	56	A	0.02	56	A	0.02	56	A	0.02	56	A	0.01	56	A	0.03	56

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Table 8 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
214	A	0.02	78	A	0.02	78	A	0.02	78	A	0.02	78	A	0.02	78	A	0.02	78	A	0.01	78	A	0.03	78
215	A	0.01	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.02	12	A	0.	12	A	0.02	12
216	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.02	16	A	0.	16	A	0.	16	A	0.	16
217	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.02	21	A	0.	21	A	0.	21	A	0.02	21
218	A	0.02	11	A	0.02	11	A	0.01	11	A	0.01	11	A	0.02	11	A	0.	11	A	0.01	11	A	0.03	11
219	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
220	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16	A	0.	16	A	0.	16	A	0.02	16
221	A	0.	10	A	0.	10	A	0.	10	A	0.01	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10
222	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.02	14
223	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.02	13	A	0.	13	A	0.	13	A	0.	13
224	A	0.01	85	A	0.01	85	A	0.01	85	A	0.01	85	A	0.02	85	A	0.02	85	A	0.	85	A	0.02	85
225	A	0.02	10	A	0.02	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
226	A	0.01	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
227	A	0.01	8	A	0.01	8	A	0.01	8	A	0.	8	A	0.	8	A	0.02	8	A	0.	8	A	0.02	8
228	A	0.02	16	A	0.02	16	A	0.02	16	A	0.01	16	A	0.02	16	A	0.	16	A	0.	16	A	0.	16
229	A	0.02	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.02	23	A	0.	23	A	0.	23	A	0.02	23
230	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
231	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16	A	0.	16	A	0.	16	A	0.	16
232	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
233	A	0.01	15	A	0.01	15	A	0.01	15	A	0.01	15	A	0.	15	A	0.01	15	A	0.	15	A	0.	15
234	A	0.01	15	A	0.01	15	A	0.01	15	A	0.	15	A	0.02	15	A	0.	15	A	0.	15	A	0.02	15
235	A	0.03	17	A	0.03	17	A	0.03	17	A	0.02	17	A	0.02	17	A	0.01	17	A	0.01	17	A	0.02	17
236	A	0.05	23	A	0.04	23	A	0.04	23	A	0.02	23	A	0.02	23	A	0.	23	A	0.01	23	A	0.02	23
237	B	0.03	32	B	0.03	32	B	0.03	32	B	0.02	32	B	0.02	32	B	0.02	32	B	0.01	32	B	0.	32
238	B	0.04	33	B	0.04	33	B	0.03	33	B	0.02	33	B	0.	33	B	0.	33	B	0.01	33	B	0.02	33
239	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14
240	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31
241	A	0.02	9	A	0.01	9	A	0.01	9	A	0.01	9	A	0.02	9	A	0.02	9	A	0.01	9	A	0.02	9

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Table 8 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
242	B	0.04	92	B	0.05	92	B	0.05	92	B	0.04	92	B	0.05	92	B	0.03	92	B	0.02	92	B	0.03	92
243	A	0.	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
244	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
245	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
246	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
247	A	0.01	4	A	0.02	4	A	0.	4	A	0.	4	A	0.	4	A	0.02	4	A	0.	4	A	0.	4
248	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.02	9	A	0.	9	A	0.02	9
249	A	0.01	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.	32	A	0.02	32	A	0.	32	A	0.	32
250	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
251	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
252	A	0.02	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.02	63	A	0.	63	A	0.01	63	A	0.	63
253	A	0.01	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
254	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8
255	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.02	33	A	0.	33	A	0.	33	A	0.02	33
256	B	0.	22	B	0.	22	B	0.	22	B	0.	22	B	0.01	22	B	0.	22	B	0.	22	B	0.	22
257	C	0.02	1210	C	0.03	1210	C	0.02	1210	C	0.03	1210	C	0.02	1210	C	0.03	1210	C	0.05	1210	C	0.03	1210
258	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26
259	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.02	54	A	0.	54	A	0.	54	A	0.	54
260	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.02	3	A	0.	3	A	0.	3	A	0.	3
261	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
262	A	0.	11	A	0.	11	A	0.	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.02	11
263	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
264	A	0.	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34
265	A	0.08	14	A	0.07	14	A	0.06	14	A	0.03	14	A	0.01	14	A	0.	14	A	0.01	14	A	0.	14
266	A	0.01	11	A	0.01	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
267	A	0.01	17	A	0.01	17	A	0.01	17	A	0.01	17	A	0.02	17	A	0.	17	A	0.	17	A	0.	17
268	A	0.01	7	A	0.	7	A	0.	7	A	0.	7	A	0.02	7	A	0.	7	A	0.	7	A	0.	7
269	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.01	5	A	0.	5	A	0.	5

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Table 8 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
270	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
271	A	0.02	42	A	0.01	42	A	0.01	42	A	0.01	42	A	0.02	42	A	0.01	42	A	0.01	42	A	0.	42
272	A	0.01	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.01	66	A	0.02	66
273	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
274	A	0.07	28	A	0.06	28	A	0.05	28	A	0.07	28	A	0.06	28	A	0.06	28	A	0.05	28	A	0.12	28
275	A	0.05	133	A	0.07	133	A	0.03	133	A	0.02	133	A	0.02	133	A	0.02	133	A	0.01	133	A	0.02	133
276	A	0.02	16	A	0.04	16	A	0.	16	A	0.02	16	A	0.02	16	A	0.	16	A	0.02	16	A	0.	16
277	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
278	C	1.19	1197351	C	0.37	1197351	C	0.32	1197351	C	0.3	1197351	C	0.38	1197351	C	0.31	1197351	C	0.24	1197351	C	0.42	1197351
279	C	0.36	352	C	0.17	352	C	0.15	352	C	0.14	354	C	0.15	352	C	0.14	352	C	0.11	352	C	0.19	352
280	B	0.21	1088	B	0.19	1088	B	0.21	1088	B	0.19	1088	B	0.2	1088	B	0.19	1088	B	0.12	1088	B	0.2	1088
281	A	0.	4640	A	0.	4640	A	0.	4640	A	0.	4640	A	0.	4640	A	0.	4640	A	0.	4640	A	0.	4640
282	C	0.28	1356	C	0.38	1356	C	0.19	1356	C	0.19	1356	C	0.16	1356	C	0.19	1356	C	0.18	1356	C	0.34	1356
283	A	0.02	5	A	0.01	5	A	0.01	5	A	0.01	5	A	0.02	5	A	0.02	5	A	0.	5	A	0.02	5
284	A	0.04	102	A	0.03	102	A	0.03	102	A	0.03	102	A	0.03	102	A	0.06	102	A	0.06	102	A	0.08	102

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Table 9: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	10	A	0.01	10	A	0.02	10	A	0.01	10	A	0.02	10	A	0.	10	A	0.	10	A	0.02	10
2	A	0.2	13	A	0.14	13	A	0.14	13	A	0.05	13	A	0.02	13	A	0.02	13	A	0.01	13	A	0.	13
3	A	0.13	35	A	0.11	35	A	0.09	35	A	0.04	35	A	0.03	35	A	0.02	35	A	0.01	35	A	0.02	35
4	A	0.2	26	A	0.15	26	A	0.14	26	A	0.05	26	A	0.02	26	A	0.	26	A	0.01	26	A	0.	26
5	A	0.1	17	A	0.09	17	A	0.11	17	A	0.03	17	A	0.02	17	A	0.	17	A	0.01	17	A	0.02	17
6	A	0.1	19	A	0.09	19	A	0.11	19	A	0.03	19	A	0.	19	A	0.	19	A	0.01	19	A	0.	19

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Table 9 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
7	A 0.02 12	A 0.01 12	A 0.02 12	A 0.01 12	A 0.02 12	A 0. 12	A 0. 12	A 0. 12
8	A 0.02 13	A 0.02 13	A 0.02 13	A 0.01 13	A 0.02 13	A 0. 13	A 0. 13	A 0. 13
9	A 0.09 53	A 0.07 53	A 0.06 53	A 0.02 53	A 0.02 53	A 0. 53	A 0.01 53	A 0.02 53

2.8 Independent_test_suites\MosesProblems

Table 10: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14
2	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.02 12	A 0. 12	A 0. 12
3	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
4	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
5	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
6	A 0.01 7	A 0.01 7	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
7	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0.01 10	A 0. 10	A 0. 10
8	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
9	A 0.02 7	A 0.02 7	A 0.02 7	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
10	A 0. 4	A 0. 4	A 0. 4	A 0.01 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
11	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
12	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
13	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
14	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
15	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0.01 17	A 0. 17	A 0. 17
16	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
17	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
18	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10

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Table 10 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
19	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
20	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0.02 6
21	A 0.01 9	A 0.01 9	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
22	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
23	A 0.01 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
24	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.01 13	A 0. 13	A 0. 13
25	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
26	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
27	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0.02 20
28	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
29	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13	A 0.02 13
30	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
31	A 0. 41	A 0. 41	A 0. 41	A 0. 41	A 0. 41	A 0. 41	A 0. 41	A 0. 41
32	C 0.18 41	C 0.14 41	C 0.14 47	C 0.21 47	C 0.17 47	C 0.2 47	C 0.16 47	C 0.34 47
33	A 0.01 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
34	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13
35	B 0. 92	B 0. 92	B 0. 92	B 0. 92	B 0. 92	B 0. 92	B 0. 92	B 0. 92
36	B 0.01 76	B 0.01 75	B 0.01 75	B 0.01 75	B 0. 75	B 0.02 76	B 0.01 75	B 0.02 75
37	A 0.01 30	A 0.01 30	A 0.01 30	A 0.01 30	A 0. 30	A 0.02 30	A 0. 30	A 0.02 30
38	A 0.01 70	A 0. 70	A 0.01 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70	A 0.02 70
39	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
40	B 0.03 262	B 0.03 262	B 0.02 262	B 0.02 262	B 0.03 262	B 0.03 262	B 0.02 262	B 0.02 262
41	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
42	C 0.12 158	C 0.1 158	C 0.08 158	C 0.06 158	C 0.06 158	C 0.06 158	C 0.04 158	C 0.06 158
43	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5
44	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
45	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0.02 9
46	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7

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Table 10 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
47	A 0. 8	A 0. 8	A 0. 8	C 0. 12	C 0. 12	C 0. 12	C 0. 12	C 0. 12
48	B 0. 8	B 0. 8	B 0. 8	B 0. 8	B 0. 8	B 0. 8	B 0. 8	B 0. 8
49	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35
50	A 0. 66	A 0. 66	A 0. 66	A 0. 66	A 0. 66	A 0.02 66	A 0. 66	A 0. 66
51	B 0.01 44	B 0.01 44	B 0.01 44	B 0.01 44	B 0.01 44	B 0.01 44	B 0.01 44	B 0. 44
52	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
53	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34
54	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
55	A 0.1 9	A 0.1 9	A 0.04 9	A 0.09 9	A 0.05 9	A 0.03 9	A 0.06 9	A 0.02 9
56	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
57	B 0. 9	B 0. 9	B 0. 9	B 0. 9	B 0. 9	B 0. 9	B 0. 9	B 0. 9
58	A 0.02 15	A 0.01 15	A 0.02 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
59	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16	A 0.02 16
60	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0.02 29	A 0. 29	A 0. 29
61	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
62	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
63	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
64	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
65	A 0.03 10	A 0.02 10	A 0.02 10	A 0.01 10	A 0. 10	A 0.02 10	A 0. 10	A 0. 10
66	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
67	A 0.01 4	A 0.01 4	A 0.01 4	A 0.01 4	A 0. 4	A 0.02 4	A 0. 4	A 0.02 4
68	A 0.04 21	A 0.04 21	A 0.04 21	A 0.02 21	A 0.02 21	A 0.02 21	A 0.01 21	A 0.02 21
69	B 0.02 262	B 0.01 262	B 0.01 262	B 0.01 262	B 0.02 262	B 0.02 262	B 0.01 262	B 0. 262
70	B 0.06 127	B 0.06 127	B 0.06 127	B 0.03 127	B 0.02 127	B 0.03 127	B 0.01 127	B 0. 127
71	B 0.01 121	B 0.02 121	B 0.02 121	B 0.01 121	B 0.02 121	B 0.02 121	B 0.01 121	B 0. 121
72	B 0.01 121	B 0.01 121	B 0.02 121	B 0.01 121	B 0.01 121	B 0.02 121	B 0. 121	B 0. 121
73	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30
74	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13

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Table 10 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
75	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
76	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
77	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24	A 0.01 24	A 0. 24
78	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
79	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
80	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
81	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13
82	A 0.01 17	A 0.01 17	A 0.02 17	A 0.01 17	A 0.01 17	A 0.02 17	A 0. 17	A 0. 17
83	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30
84	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0.01 16	A 0.02 16
85	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
86	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
87	A 0.23 31	A 0.2 31	A 0.18 31	A 0.09 31	A 0.03 31	A 0.03 31	A 0.02 31	A 0.03 31
88	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
89	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
90	A 0.01 20	A 0. 20	A 0.01 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0.02 20
91	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
92	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
93	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
94	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
95	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
96	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
97	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0.01 7	A 0. 7	A 0. 7
98	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0. 21	A 0.01 21	A 0.02 21
99	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
100	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0.01 30	A 0. 30	A 0. 30	A 0.02 30
101	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
102	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27

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Table 10 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
103	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
104	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
105	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
106	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
107	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
108	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
109	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
110	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
111	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
112	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0.02 29	A 0. 29	A 0. 29
113	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27

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Table 11: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
2	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
4	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5
6	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
7	A 0. 3	B 0. 8	B 0. 8	B 0. 8	B 0. 8	B 0. 8	B 0. 8	B 0. 8
8	A 0. 5	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
9	A 0.01 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
10	A 0.01 5	A 0.01 5	A 0.01 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
11	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
12	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3	A 0. 3
13	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
14	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
15	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
16	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
17	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
18	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
19	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
20	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
21	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
22	A 0. 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
23	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
24	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
25	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0.02 24
26	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
27	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
28	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
29	A 0.01 9	A 0.01 9	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
30	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.01 14	A 0. 14	A 0. 14
31	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
32	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
33	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
34	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
35	A 0.01 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
36	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
37	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
38	A 0.01 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
39	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
40	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
41	A 0.01 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
42	A 0.12 14	A 0.12 14	A 0.11 14	A 0.04 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
43	A 0.02 9	A 0.01 9	A 0.01 9	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
44	A 0.01 12	A 0.01 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
45	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
46	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
47	A 0.06 15	A 0.02 15	A 0.01 15	A 0.02 15	A 0.02 15	A 0.02 15	A 0.01 15	A 0. 15
48	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
49	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
50	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
51	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
52	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0.02 17	A 0. 17	A 0.02 17
53	A 0.01 17	A 0.01 17	A 0. 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
54	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0.02 17
55	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
56	A 0.01 17	A 0.01 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
57	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
58	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15
59	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
60	A 0. 18	A 0. 18	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
61	A 0. 11	A 0. 11	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
62	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18
63	B 0.01 30	B 0.01 30	B 0.01 32	B 0. 32	B 0. 32	B 0. 32	B 0. 32	B 0.02 32
64	A 0.01 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
65	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
66	A 0.04 19	A 0.03 19	A 0.04 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
67	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15
68	A 0.01 28	A 0.01 28	A 0.01 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
69	A 0. 24	A 0. 24	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
70	A 0.06 24	A 0.04 24	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
71	A 0.02 36	A 0.01 36	A 0.01 39	A 0. 39	A 0. 39	A 0. 39	A 0. 39	A 0.02 39
72	A 0. 17	A 0. 17	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
73	A 0.01 36	A 0.01 36	A 0.01 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37
74	B 0.03 33	B 0.03 33	B 0.02 33	B 0.02 33	B 0.02 33	B 0.02 33	B 0.01 33	B 0.02 33
75	A 0.02 15	A 0.02 15	A 0.02 15	A 0.02 15	A 0. 15	A 0. 15	A 0.01 15	A 0.02 15
76	A 0.02 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
77	A 0.01 15	A 0. 15	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
78	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
79	A 0.02 29	A 0.02 29	A 0.02 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
80	A 0.04 6	A 0.03 6	A 0.04 6	A 0.01 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
81	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
82	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
83	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
84	A 0.04 13	A 0.04 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18
85	A 0.04 19	A 0.03 24	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
86	A 0.02 11	A 0.01 11	A 0.01 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
87	A 0.02 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
88	A 0.01 7	A 0.01 7	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
89	B 0.02 42	B 0.02 42	B 0.02 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44
90	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23	A 0. 23	A 0. 23	A 0. 23
91	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
92	B 0.01 48	B 0.01 48	B 0.01 52	B 0. 52	B 0. 52	B 0. 52	B 0. 52	B 0. 52
93	B 0.02 58	B 0.02 58	B 0.01 62	B 0. 62	B 0. 62	B 0. 62	B 0. 62	B 0. 62
94	A 0.01 7	A 0.01 7	A 0.01 7	A 0. 7	A 0.02 7	A 0. 7	A 0. 7	A 0.02 7

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
95	B 0.02 32	B 0.02 32	B 0.01 32	B 0. 32	B 0. 32	B 0. 32	B 0. 32	B 0. 32
96	A 0.01 7	A 0.01 7	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
97	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
98	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12	A 0. 12	A 0. 12	A 0. 12
99	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
100	A 0.02 22	A 0.02 22	A 0.02 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
101	A 0.02 22	A 0.02 22	A 0.02 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
102	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0.02 9	A 0. 9	A 0. 9	A 0. 9
103	A 0.07 18	A 0.05 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0.02 20
104	A 0.01 12	A 0.01 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
105	A 0.05 12	A 0.05 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18
106	A 0.07 14	A 0.06 14	A 0.06 14	A 0.02 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14
107	A 0.05 14	A 0.05 14	A 0.05 14	A 0.02 14	A 0. 14	A 0.02 14	A 0. 14	A 0.02 14
108	A 0.09 12	A 0.08 12	A 0.07 12	A 0.02 12	A 0.01 12	A 0. 12	A 0. 12	A 0.02 12
109	A 0.02 9	A 0.02 9	A 0.01 9	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14
110	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
111	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
112	A 0.02 6	A 0.02 6	A 0.02 6	A 0.01 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
113	A 0.07 20	A 0.06 20	A 0.06 20	A 0.03 20	A 0.02 20	A 0. 20	A 0.01 20	A 0.02 20
114	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
115	A 0.02 29	A 0.02 29	A 0.02 29	A 0.01 29	A 0.02 29	A 0.02 29	A 0. 29	A 0. 29
116	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
117	B 0. 42	B 0. 42	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44
118	A 0.01 34	A 0. 34	A 0. 34	A 0.01 34	A 0. 34	A 0. 34	A 0. 34	A 0.02 34
119	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
120	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0.02 8	A 0. 8	A 0. 8
121	A 0. 15	A 0.01 15	A 0. 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15	A 0. 15
122	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
123	A 0.01 24	A 0.01 24	A 0. 24	A 0.01 24	A 0. 24	A 0.01 24	A 0. 24	A 0. 24
124	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
125	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
126	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
127	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18	A 0. 18	A 0. 18	A 0. 18
128	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
129	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
130	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5
131	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
132	A 0.01 26	A 0.01 26	A 0.01 26	A 0.01 26	A 0.02 26	A 0.01 26	A 0.01 26	A 0.02 26
133	A 0.01 28	A 0. 28	A 0. 28	A 0. 28	A 0.02 28	A 0.01 28	A 0. 28	A 0. 28
134	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.02 25	A 0.01 25	A 0. 25	A 0. 25
135	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
136	A 0.01 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0. 31	A 0.01 31	A 0.01 31	A 0.02 31
137	A 0.01 23	A 0. 23	A 0.01 23	A 0.01 23	A 0.02 23	A 0. 23	A 0.01 23	A 0. 23
138	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
139	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0.02 10	A 0. 10	A 0. 10
140	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
141	A 0.01 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0.02 32
142	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0.02 10	A 0. 10	A 0. 10
143	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
144	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
145	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0.02 7	A 0. 7	A 0. 7	A 0. 7
146	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
147	A 0.01 37	A 0. 37	A 0. 37	A 0.01 37	A 0. 37	A 0.02 37	A 0. 37	A 0. 37
148	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
149	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
150	A 0.01 23	A 0.01 23	A 0.01 23	A 0.01 23	A 0. 23	A 0.01 23	A 0. 23	A 0. 23

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
151	A 0.01 23	A 0.01 23	A 0.01 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
152	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13	A 0. 13
153	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0.02 14	A 0.02 14	A 0. 14	A 0. 14
154	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
155	A 0.01 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0.01 20	A 0. 20
156	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
157	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0.01 18	A 0. 18	A 0. 18
158	A 0.01 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0.02 32	A 0. 32	A 0. 32	A 0.02 32
159	A 0.02 73	A 0.02 87	A 0.02 87	A 0.02 87	A 0.02 87	A 0.01 87	A 0.01 87	A 0. 87
160	A 0.01 28	A 0.01 30	A 0.01 30	A 0.01 30	A 0.02 30	A 0. 30	A 0. 30	A 0.02 30
161	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
162	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0.02 14	A 0. 14	A 0.02 14
163	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0.01 16	A 0. 16	A 0. 16
164	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.02 27	A 0. 27	A 0.02 27
165	A 0.01 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0.02 34	A 0.02 34	A 0.01 34	A 0.02 34
166	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0. 18	A 0. 18
167	A 0.01 24	A 0.01 24	A 0.02 24	A 0.02 24	A 0.02 24	A 0.02 24	A 0.01 24	A 0.02 24
168	A 0. 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12
169	A 0.01 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0. 32	A 0.02 32	A 0. 32	A 0.02 32
170	A 0.01 22	A 0.02 22	A 0.02 22	A 0.01 22	A 0. 22	A 0.02 22	A 0.01 22	A 0. 22
171	A 0.02 48	A 0.02 48	A 0.02 48	A 0.02 48	A 0.02 48	A 0.01 48	A 0. 48	A 0. 48
172	A 0.01 25	A 0.01 28	A 0.01 28	A 0.01 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
173	A 0.02 68	A 0.01 70	A 0.01 70	A 0.01 70	A 0.02 70	A 0.02 70	A 0.01 70	A 0. 70
174	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.02 36	A 0.02 36	A 0.01 36	A 0. 36
175	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0.02 38	A 0. 38	A 0. 38
176	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14
177	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
178	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.02 12	A 0.01 12	A 0. 12	A 0. 12

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
179	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.02 12	A 0. 12	A 0. 12
180	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
181	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27
182	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13
183	A 0.01 19	A 0.01 19	A 0.01 19	A 0.01 19	A 0.01 19	A 0.02 19	A 0. 19	A 0.02 19
184	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15	A 0.02 15	A 0. 15	A 0.02 15
185	A 0.01 20	A 0.01 20	A 0.02 20	A 0.01 20	A 0.01 20	A 0.02 20	A 0.01 20	A 0.02 20
186	A 0.01 16	A 0.02 16	A 0.02 16	A 0.02 16	A 0.01 16	A 0.02 16	A 0.01 16	A 0.02 16
187	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13
188	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.02 21	A 0. 21	A 0. 21
189	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21
190	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15
191	A 0.01 18	A 0.02 18	A 0.02 18	A 0.01 18	A 0.01 18	A 0. 18	A 0.01 18	A 0. 18
192	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
193	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0.02 24	A 0. 24	A 0. 24
194	A 0.01 20	A 0.01 20	A 0.01 20	A 0. 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20
195	A 0.01 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0.02 17	A 0. 17	A 0. 17
196	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
197	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
198	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0.02 19
199	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
200	A 0.01 22	A 0. 22	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22
201	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0. 20	A 0. 20	A 0.02 20
202	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0.02 24	A 0. 24	A 0. 24
203	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33
204	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36
205	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.02 21	A 0. 21	A 0. 21
206	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
207	A 0. 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25
208	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18
209	A 0.01 35	A 0.01 35	A 0. 35	A 0. 35	A 0.01 35	A 0. 35	A 0. 35	A 0.02 35
210	A 0. 11	A 0. 11	A 0. 11	A 0.01 11	A 0.01 11	A 0. 11	A 0. 11	A 0.02 11
211	A 0.05 12	A 0.04 12	A 0.04 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
212	A 0.02 18	A 0.02 18	A 0.02 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0. 18	A 0.02 18
213	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0.02 14
214	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.02 12	A 0. 12	A 0.02 12
215	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18
216	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
217	A 0.02 51	A 0.02 51	A 0.02 51	A 0.02 51	A 0.02 51	A 0.02 51	A 0.01 51	A 0.02 51
218	A 0.02 54	A 0.02 56	A 0.01 56	A 0.02 56	A 0.01 56	A 0.01 56	A 0.01 56	A 0. 56
219	A 0.01 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0. 29	A 0.01 29	A 0.02 29
220	A 0.05 175	A 0.06 175	A 0.06 175	A 0.06 175	A 0.06 175	A 0.05 175	A 0.03 175	A 0.03 175
221	A 0.06 22	A 0.06 22	A 0.05 22	A 0.02 22	A 0.01 22	A 0.02 22	A 0. 22	A 0. 22
222	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
223	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
224	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
225	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0.02 9	A 0. 9	A 0. 9
226	B 0.01 50	B 0.01 50	B 0.01 50	B 0. 50	B 0.01 50	B 0. 50	B 0. 50	B 0. 50
227	B 0.02 54	B 0.03 54	B 0.03 54	B 0.03 54	B 0.03 54	B 0.03 54	B 0.01 54	B 0. 54
228	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
229	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
230	A 0.01 20	A 0.01 20	A 0.02 31	A 0.04 31	A 0.02 31	A 0.02 31	A 0.01 31	A 0.03 31
231	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0.02 7
232	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16
233	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23
234	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0.02 17

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
235	A 0.02 242	A 0.03 242	A 0.03 242	A 0.03 242	A 0.03 242	A 0.05 242	A 0.02 242	A 0.03 240
236	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
237	A 0.01 83	A 0.01 83	A 0. 83	A 0.01 83	A 0.01 83	A 0. 83	A 0. 83	A 0. 83
238	A 0.01 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0.01 40	A 0.02 40
239	A 0.05 12	A 0.05 12	A 0.04 12	A 0.02 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12
240	A 0.01 16	A 0.01 16	A 0.02 16	A 0.01 16	A 0.01 16	A 0. 16	A 0.01 16	A 0. 16
241	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
242	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
243	A 0.03 22	A 0.03 22	A 0.03 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22
244	A 0. 19	A 0. 19	A 0. 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
245	A 0.05 16	A 0.06 16	A 0.05 16	A 0.02 16	A 0.01 16	A 0.02 16	A 0. 16	A 0. 16
246	A 0.05 22	A 0.05 22	A 0.04 22	A 0.02 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22
247	A 0.05 24	A 0.05 24	A 0.06 24	A 0.02 24	A 0.01 24	A 0.02 24	A 0.01 24	A 0. 24
248	A 0.09 24	A 0.08 24	A 0.11 24	A 0.05 24	A 0.02 24	A 0.03 24	A 0.01 24	A 0.02 24
249	A 0.04 24	A 0.04 24	A 0.04 24	A 0.02 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24
250	A 0.08 35	A 0.06 35	A 0.04 35	A 0.02 35	A 0. 35	A 0.02 35	A 0. 35	A 0. 35
251	A 0. 16	A 0. 16	A 0. 16	A 0.03 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
252	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
253	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
254	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
255	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
256	B 0. 42	B 0. 42	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44
257	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
258	A 0.01 31	A 0.02 31	A 0.02 31	A 0.02 31	A 0.02 31	A 0.02 31	A 0.01 31	A 0. 31
259	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
260	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
261	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0.02 4	A 0. 4	A 0. 4
262	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
263	A 0.04 9	A 0.04 9	A 0.03 9	A 0.01 9	B 0.02 18	B 0.02 18	B 0. 18	B 0. 18
264	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0.02 17	A 0. 17	A 0.02 17
265	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14	A 0. 14
266	A 0.01 19	A 0.01 19	A 0.01 19	A 0. 19	A 0.02 19	A 0.02 19	A 0. 19	A 0.02 19
267	A 0. 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0.02 13	A 0. 13	A 0. 13	A 0. 13
268	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
269	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
270	B 0. 43	B 0. 43	B 0. 43	B 0. 43	B 0. 43	B 0. 43	B 0. 43	B 0. 43
271	A 0.02 22	A 0.02 22	A 0.02 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
272	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
273	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25	A 0. 25
274	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0.01 25	A 0.02 25	A 0. 25	A 0. 25
275	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
276	A 0.01 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
277	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
278	A 0.01 4	A 0.01 4	A 0.02 4	A 0.01 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
279	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
280	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
281	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
282	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
283	A 0.06 14	A 0.05 14	A 0.04 14	A 0.02 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
284	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0.02 20	A 0. 20	A 0. 20
285	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
286	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14
287	A 0. 11	A 0. 11	A 0. 11	A 0.01 11	A 0.01 11	A 0. 11	A 0. 11	A 0. 11
288	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30	A 0. 30	A 0. 30	A 0. 30
289	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
290	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
291	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
292	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11	A 0. 11
293	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0.02 9
294	A 0. 26	A 0. 26	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
295	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0.01 7	A 0. 7	A 0.02 7
296	B 0.02 59	B 0.03 59	B 0.03 59	B 0.03 59	B 0.04 59	B 0.03 59	B 0.02 59	B 0.02 59
297	A 0.02 6	A 0.02 6	A 0.02 6	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
298	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
299	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0.02 35	A 0. 35	A 0. 35
300	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0. 38	A 0.01 38	A 0. 38	A 0. 38
301	A 0.03 8	A 0.02 8	A 0.02 8	A 0.01 8	C 0.14 526	C 0.12 526	C 0.3 526	C 0.16 526
302	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
303	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.02 12	A 0. 12	A 0. 12
304	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0.01 18	A 0. 18
305	A 0.03 22	A 0.03 22	A 0.03 22	A 0.01 22	A 0.01 22	A 0.02 22	A 0. 22	A 0. 22
306	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
307	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
308	B 0.02 93	B 0.02 93	B 0.02 93	B 0.02 93	B 0.01 93	B 0.02 93	B 0.01 93	B 0.03 93
309	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16
310	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35
311	A 0.01 6	A 0.01 6	A 0.01 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
312	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0.01 5	A 0. 5	A 0. 5	A 0. 5
313	A 0.01 30	A 0.01 30	A 0.01 30	A 0.01 30	A 0.02 30	A 0. 30	A 0. 30	A 0. 30
314	B 0.05 58	B 0.04 58	B 0.03 62	B 0.01 62	B 0. 62	B 0. 62	B 0. 62	B 0. 62
315	A 0.02 25	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
316	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
317	A 0. 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0.02 12	A 0. 12	A 0. 12
318	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
319	A 0. 28	A 0.01 28	A 0. 28	A 0.01 28	A 0. 28	A 0.02 28	A 0. 28	A 0. 28
320	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
321	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0.01 11	A 0. 11	A 0. 11
322	A 0.01 41	A 0.01 41	A 0.01 41	A 0.01 41	A 0.01 41	A 0. 41	A 0. 41	A 0. 42
323	C 0.03 119	C 0. 119	C 0. 119	C 0. 119	C 0. 119	C 0. 119	C 0. 119	C 0.05 119
324	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
325	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30	A 0. 30	A 0. 30
326	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
327	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
328	A 0.01 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16
329	B 0.01 30	B 0.01 30	B 0.01 30	B 0.01 30	B 0. 30	B 0.02 30	B 0.01 30	B 0. 30
330	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14
331	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18
332	A 0.01 17	A 0. 17	A 0.01 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0.02 17
333	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0.02 16	A 0.01 16	A 0.02 16
334	A 0.01 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0. 20	A 0.01 20	A 0. 20
335	A 0.07 11	A 0.07 11	A 0.07 11	A 0.02 11	A 0.01 11	A 0.01 11	A 0. 11	A 0. 11
336	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13
337	A 0.05 10	A 0.04 10	A 0.04 10	A 0.04 10	A 0.02 10	A 0.01 10	A 0.01 10	A 0.02 10
338	A 0.01 23	A 0.01 23	A 0. 23	A 0. 23	A 0.01 23	A 0.02 23	A 0. 23	A 0. 23
339	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
340	A 0.01 42	A 0.01 42	A 0. 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0.02 42
341	B 0. 47	B 0. 47	B 0. 47	B 0. 47	B 0. 47	B 0. 47	B 0. 47	B 0. 47
342	A 0.01 28	A 0.01 28	A 0.01 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
343	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
344	A 0.01 24	A 0.01 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
345	A 0.01 47	A 0.01 47	A 0. 47	A 0.01 47	A 0. 47	A 0. 47	A 0. 47	A 0.02 47
346	A 0. 25	A 0. 25	A 0.01 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25

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Table 11 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
347	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
348	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
349	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
350	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0.01 31	A 0. 31	A 0. 31
351	A 0.03 5	A 0.02 5	A 0. 5	A 0.01 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5
352	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0.02 24	A 0. 24	A 0. 24	A 0. 24
353	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0.02 29	A 0. 29	A 0. 29
354	A 0.01 23	A 0.01 23	A 0.01 23	A 0.01 23	A 0.02 23	A 0.02 23	A 0.01 23	A 0. 23
355	A 0.05 25	A 0.04 27	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
356	A 0.01 32	A 0.01 32	A 0.01 39	A 0. 39	A 0. 39	A 0. 39	A 0. 39	A 0. 39
357	A 0.01 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
358	A 0.01 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0.02 22	A 0. 22	A 0.02 22
359	A 0.02 31	A 0.02 31	A 0.02 31	B 0.04 294	B 0.04 294	B 0.03 294	B 0.03 294	B 0.05 294
360	A 0.01 26	A 0. 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
361	A 0.04 17	A 0.03 17	A 0. 22	A 0. 22	A 0. 22	A 0.01 22	A 0. 22	A 0. 22
362	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
363	C 0.06 34	C 0.05 34	C 0.04 34	C 0.04 34	C 0.04 34	C 0.03 34	C 0.03 34	C 0.05 34
364	A 0.01 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
365	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
366	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
367	A 0.01 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
368	A 0.01 14	A 0.01 14	A 0.01 14	A 0.07 14	A 0.15 14	A 0.06 14	A 0.14 14	A 0.06 14
369	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0. 35	A 0.01 35	A 0. 35
370	B 0. 27	B 0. 27	B 0. 27	B 0. 27	B 0. 27	B 0. 27	B 0. 27	B 0. 27
371	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
372	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
373	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15
374	A 0. 18	A 0. 18	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19

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Table 11 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
375	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
376	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.02	22

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Table 12: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.01	32	B	0.01	32	B	0.01	32	B	0.04	32	B	0.01	32	B	0.02	32	B	0.	32	B	0.02	32
2	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
3	A	0.	18	A	0.	18	A	0.	18	A	0.01	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
4	A	0.01	15	A	0.01	15	A	0.01	15	A	0.01	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
5	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
6	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3
7	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.01	5	A	0.	5	A	0.	5
8	A	0.02	5	A	0.02	5	A	0.02	5	A	0.02	9	A	0.01	9	A	0.	9	A	0.	9	A	0.02	9
9	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5
10	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
11	A	0.01	13	A	0.01	13	A	0.01	13	A	0.01	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
12	A	0.02	16	A	0.02	16	A	0.02	16	A	0.02	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
13	B	0.02	34	B	0.02	34	B	0.02	34	B	0.02	34	B	0.	34	B	0.	34	B	0.	34	B	0.	34
14	A	0.03	18	A	0.03	18	A	0.03	18	A	0.01	18	A	0.01	18	A	0.	18	A	0.01	18	A	0.	18
15	A	0.03	20	A	0.03	20	A	0.03	20	A	0.01	20	A	0.02	21	A	0.02	21	A	0.01	21	A	0.02	21
16	A	0.03	19	A	0.02	19	A	0.02	19	A	0.01	19	A	0.01	19	A	0.	19	A	0.01	19	A	0.02	19
17	A	0.03	19	A	0.02	19	A	0.02	19	A	0.01	19	A	0.01	20	A	0.02	20	A	0.01	20	A	0.02	20
18	A	0.02	14	A	0.02	14	A	0.03	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.02	14
19	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6

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Table 12 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
20	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
21	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
22	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
23	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.02	10
24	A	0.01	22	A	0.01	22	A	0.01	22	A	0.02	22	A	0.02	22	A	0.02	22	A	0.01	22	A	0.	22
25	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.02	21
26	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
27	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.02	24	A	0.	24	A	0.	24
28	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.02	24
29	A	0.05	14	A	0.04	14	A	0.04	14	A	0.02	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
30	A	0.	12	A	0.	12	A	0.	12	A	0.06	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
31	B	0.15	96	B	0.14	96	B	0.14	96	B	0.09	96	B	0.05	96	B	0.05	96	B	0.02	96	B	0.03	96
32	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
33	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
34	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
35	B	0.01	32	B	0.01	32	B	0.01	34	B	0.	34	B	0.	34	B	0.02	34	B	0.	34	B	0.	34
36	A	0.	15	B	0.	19	B	0.	19	B	0.	19	B	0.	19	B	0.	19	B	0.	19	B	0.	19
37	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
38	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.01	19	A	0.	19	A	0.	19	A	0.02	19
39	A	0.02	11	A	0.02	11	A	0.02	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
40	A	0.02	15	A	0.02	20	A	0.02	20	A	0.01	20	A	0.	20	A	0.02	20	A	0.	20	A	0.	20
41	A	0.02	13	A	0.02	13	A	0.02	13	A	0.01	13	A	0.01	13	A	0.	13	A	0.01	13	A	0.02	13
42	A	0.02	13	A	0.02	13	A	0.02	13	A	0.01	13	A	0.01	13	A	0.02	13	A	0.	13	A	0.02	13
43	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.02	29	A	0.02	29	A	0.	29	A	0.	29
44	A	0.01	14	A	0.01	14	A	0.01	14	A	0.01	14	A	0.02	14	A	0.	14	A	0.	14	A	0.02	14
45	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.02	11	A	0.	11	A	0.	11
46	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
47	A	0.01	47	A	0.	47	A	0.01	47	A	0.02	47	A	0.	47	A	0.	47	A	0.	47	A	0.02	47

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Table 12 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
48	A	0.01	19	A	0.01	19	A	0.01	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.02	19
49	A	0.	17	A	0.	17	A	0.	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
50	A	0.02	19	A	0.02	19	A	0.01	19	A	0.02	19	A	0.01	19	A	0.	19	A	0.01	19	A	0.02	19
51	A	0.01	41	A	0.	41	A	0.	41	A	0.	41	A	0.01	41	A	0.	41	A	0.	41	A	0.02	41
52	A	0.01	37	A	0.01	37	A	0.	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.	37
53	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35
54	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.02	7	A	0.	7	A	0.02	7
55	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
56	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.02	7
57	A	0.01	22	A	0.01	22	A	0.01	22	A	0.01	22	A	0.01	22	A	0.02	22	A	0.01	22	A	0.	22
58	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25
59	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
60	A	0.09	23	A	0.08	23	A	0.08	23	A	0.02	23	A	0.01	23	A	0.02	23	A	0.	23	A	0.	23
61	A	0.02	14	A	0.02	14	A	0.03	14	A	0.01	14	A	0.01	14	A	0.	14	A	0.	14	A	0.02	14
62	A	0.09	11	A	0.08	15	A	0.08	15	A	0.04	15	A	0.	15	A	0.01	15	A	0.01	15	A	0.02	15
63	A	0.01	4	A	0.01	4	A	0.01	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
64	A	0.02	15	A	0.02	15	A	0.02	15	A	0.01	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
65	A	0.03	15	A	0.02	15	A	0.02	15	A	0.01	15	A	0.02	15	A	0.	15	A	0.01	15	A	0.02	15
66	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
67	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
68	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
69	A	0.08	38	A	0.07	38	A	0.07	38	A	0.07	38	A	0.04	40	A	0.05	40	A	0.03	40	A	0.03	40
70	A	0.01	7	A	0.01	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
71	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
72	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
73	A	0.02	53	A	0.02	53	A	0.02	53	A	0.02	53	A	0.02	53	A	0.02	53	A	0.02	53	A	0.01	53
74	A	0.	17	A	0.	17	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
75	A	0.	26	A	0.	26	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
76	A	0.05	26	A	0.04	29	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
77	A	0.01	18	A	0.01	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
78	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
79	B	0.03	71	B	0.03	71	B	0.03	71	B	0.03	71	B	0.02	71	B	0.02	71	B	0.02	71	B	0.03	71
80	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
81	C	0.06	61	C	0.06	61	C	0.05	84	C	0.04	84	C	0.04	84	C	0.02	84	C	0.01	84	C	0.05	91
82	A	0.01	20	A	0.01	20	A	0.01	20	A	0.01	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
83	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
84	A	0.	24	A	0.	24	A	0.	24	A	0.03	24	A	0.02	24	A	0.	24	A	0.01	24	A	0.	24
85	A	0.	20	A	0.	20	A	0.	20	A	0.03	20	A	0.03	20	A	0.03	20	A	0.01	20	A	0.02	20
86	A	0.02	44	A	0.02	44	A	0.01	44	A	0.02	45	A	0.01	44	A	0.02	45	A	0.01	44	A	0.	45
87	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
88	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30
89	A	0.08	29	A	0.07	29	A	0.12	29	A	0.07	29	A	0.08	29	A	0.09	29	A	0.17	29	A	0.12	29
90	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
91	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
92	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.02	16	A	0.	16	A	0.	16
93	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
94	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
95	A	0.01	39	A	0.01	39	A	0.	39	A	0.01	39	A	0.	39	A	0.	39	A	0.	39	A	0.02	39
96	A	0.01	18	A	0.02	18	A	0.02	18	A	0.02	18	A	0.02	18	A	0.02	18	A	0.01	18	A	0.02	18
97	A	0.02	26	A	0.03	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.01	26	A	0.	26
98	A	0.01	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.01	26	A	0.	26
99	A	0.01	26	A	0.01	26	A	0.02	26	A	0.02	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.	26
100	A	0.01	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.01	26	A	0.01	26	A	0.	26
101	A	0.01	20	A	0.01	20	A	0.01	20	A	0.01	20	A	0.01	20	A	0.02	20	A	0.	20	A	0.02	20
102	A	0.01	33	A	0.01	33	A	0.01	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.	33	A	0.	33
103	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.02	28	A	0.01	28	A	0.	28

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
104	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.02	28	A	0.	28	A	0.	28
105	A	0.02	32	A	0.02	32	A	0.02	32	A	0.01	32	A	0.02	32	A	0.02	32	A	0.01	32	A	0.	32
106	A	0.02	35	A	0.02	35	A	0.02	35	A	0.02	35	A	0.02	35	A	0.02	35	A	0.01	35	A	0.	35
107	A	0.01	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.02	24	A	0.	24	A	0.	24
108	A	0.01	22	A	0.01	22	A	0.02	22	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22
109	A	0.01	26	A	0.01	26	A	0.02	26	A	0.01	26	A	0.02	26	A	0.	26	A	0.01	26	A	0.	26
110	A	0.01	33	A	0.01	33	A	0.01	33	A	0.01	33	A	0.01	33	A	0.02	33	A	0.	33	A	0.	33
111	A	0.01	37	A	0.01	37	A	0.02	37	A	0.01	37	A	0.01	37	A	0.02	37	A	0.01	37	A	0.02	37
112	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.02	34	A	0.	34	A	0.	34
113	A	0.	54	A	0.	54	A	0.	54	A	0.01	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54
114	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.02	46	A	0.01	46	A	0.02	46
115	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.	41	A	0.	41	A	0.02	41
116	A	0.01	36	A	0.02	36	A	0.02	36	A	0.02	36	A	0.02	36	A	0.02	36	A	0.01	36	A	0.02	36
117	A	0.01	34	A	0.02	34	A	0.02	34	A	0.02	34	A	0.02	34	A	0.02	34	A	0.01	34	A	0.02	34
118	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.	52	A	0.01	52	A	0.	52
119	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.	52	A	0.	52	A	0.02	52
120	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.02	11
121	A	0.01	34	A	0.01	34	A	0.02	34	A	0.01	34	A	0.01	34	A	0.	34	A	0.01	34	A	0.	34
122	A	0.01	60	A	0.01	60	A	0.02	60	A	0.01	60	A	0.01	60	A	0.	60	A	0.	60	A	0.	60
123	A	0.01	60	A	0.01	60	A	0.02	60	A	0.01	60	A	0.02	60	A	0.	60	A	0.01	60	A	0.	60
124	A	0.01	43	A	0.01	43	A	0.02	43	A	0.01	43	A	0.02	43	A	0.	43	A	0.01	43	A	0.02	43
125	A	0.01	67	A	0.01	67	A	0.01	67	A	0.01	67	A	0.	67	A	0.	67	A	0.	67	A	0.02	67
126	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
127	A	0.01	33	A	0.01	33	A	0.02	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.	33	A	0.	33
128	B	0.01	30	B	0.01	30	B	0.01	30	B	0.01	30	B	0.01	30	B	0.	30	B	0.01	30	B	0.02	30
129	A	0.01	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.01	41	A	0.	41
130	A	0.01	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.01	41	A	0.	41
131	A	0.01	43	A	0.02	43	A	0.02	43	A	0.02	43	A	0.02	43	A	0.01	43	A	0.01	43	A	0.02	43

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
132	A	0.01	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.01	41	A	0.02	41
133	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
134	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.02	14
135	A	0.01	101	A	0.01	101	A	0.01	101	A	0.01	101	A	0.01	101	A	0.02	101	A	0.	101	A	0.	101
136	C	0.02	101	C	0.03	101	C	0.04	101	C	0.02	101	C	0.02	101	C	0.03	101	C	0.02	101	C	0.02	101
137	C	0.01	97	C	0.01	97	C	0.01	97	C	0.01	97	C	0.01	97	C	0.02	97	C	0.	97	C	0.	97
138	C	0.01	101	C	0.01	101	C	0.01	101	C	0.01	101	C	0.02	101	C	0.02	101	C	0.01	101	C	0.	101
139	C	0.01	97	C	0.01	97	C	0.01	97	C	0.01	97	C	0.02	97	C	0.	97	C	0.	97	C	0.02	97
140	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
141	B	0.01	49	B	0.01	49	B	0.02	49	B	0.01	49	B	0.02	49	B	0.01	49	B	0.01	49	B	0.02	49
142	C	0.01	109	C	0.02	109	C	0.02	109	C	0.02	109	C	0.02	109	C	0.02	109	C	0.01	109	C	0.02	109
143	C	0.01	105	C	0.02	105	C	0.02	105	C	0.02	105	C	0.01	105	C	0.01	105	C	0.01	105	C	0.	105
144	C	0.01	109	C	0.02	109	C	0.02	109	C	0.02	109	C	0.01	109	C	0.02	109	C	0.01	109	C	0.	109
145	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
146	A	0.05	28	A	0.07	28	A	0.06	28	A	0.06	28	A	0.05	28	A	0.05	28	A	0.04	28	A	0.03	28
147	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.02	52
148	A	0.01	28	A	0.01	36	A	0.01	36	A	0.01	36	A	0.02	36	A	0.	36	A	0.	36	A	0.	36
149	A	0.01	146	A	0.01	146	A	0.01	146	A	0.01	146	A	0.02	146	A	0.	146	A	0.01	146	A	0.	146
150	A	0.01	35	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36
151	A	0.02	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.02	53	A	0.02	53	A	0.	53	A	0.02	53
152	A	0.01	29	A	0.01	31	A	0.01	31	A	0.01	31	A	0.02	31	A	0.02	31	A	0.01	31	A	0.	31
153	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.	41	A	0.02	41	A	0.01	41	A	0.	41
154	A	0.03	17	A	0.02	17	A	0.02	17	A	0.02	17	A	0.02	17	A	0.03	17	A	0.02	17	A	0.08	17
155	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35
156	A	0.01	25	A	0.01	25	A	0.01	25	A	0.01	25	A	0.01	25	A	0.02	25	A	0.	25	A	0.	25
157	A	0.01	18	A	0.01	18	A	0.01	18	A	0.01	18	A	0.01	18	A	0.02	18	A	0.01	18	A	0.02	18
158	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.02	27	A	0.	27	A	0.	27
159	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.02	30	A	0.	30	A	0.	30

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
160	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.	46	A	0.	46	A	0.	46
161	A	0.02	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.02	35	A	0.	35	A	0.	35
162	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.02	28	A	0.	28	A	0.	28
163	A	0.02	42	A	0.01	42	A	0.01	42	A	0.01	42	A	0.01	42	A	0.02	42	A	0.	42	A	0.	42
164	A	0.	44	A	0.	44	A	0.	44	A	0.	44	A	0.	44	A	0.02	44	A	0.	44	A	0.	44
165	A	0.02	49	A	0.01	49	A	0.01	49	A	0.01	49	A	0.01	49	A	0.02	49	A	0.01	49	A	0.02	49
166	A	0.01	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.02	32	A	0.	32	A	0.	32
167	A	0.01	32	A	0.01	39	A	0.01	39	A	0.01	39	A	0.	39	A	0.	39	A	0.	39	A	0.02	39
168	A	0.01	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
169	A	0.01	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37	A	0.02	37	A	0.	37	A	0.	37
170	A	0.01	28	A	0.02	32	A	0.01	32	A	0.02	32	A	0.02	32	A	0.01	32	A	0.	32	A	0.02	32
171	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.02	29	A	0.	29	A	0.	29
172	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.02	12
173	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.01	49	A	0.	49
174	A	0.02	152	A	0.02	152	A	0.02	152	A	0.02	152	A	0.01	152	A	0.02	152	A	0.01	152	A	0.02	152
175	A	0.02	57	A	0.03	57	A	0.03	57	A	0.03	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.02	57
176	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.02	34	A	0.02	34	A	0.	34	A	0.	34
177	A	0.2	354	B	1.08	2194	B	0.87	2194	B	0.78	2194	B	0.71	2194	B	1.89	3192	B	1.99	3192	B	2.6	3166
178	A	0.02	39	A	0.02	43	A	0.02	43	A	0.01	43	A	0.	43	A	0.	43	A	0.	43	A	0.02	43
179	A	0.	29	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31
180	A	0.02	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.02	31	A	0.01	31	A	0.	31
181	A	0.02	61	A	0.02	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.01	59	A	0.02	59
182	A	0.02	54	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.	55	A	0.	55
183	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.02	36	A	0.01	36	A	0.	36
184	A	0.01	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.	24	A	0.	24	A	0.	24
185	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.02	39	A	0.	39	A	0.	39
186	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.02	35	A	0.01	35	A	0.02	35
187	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
188	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
189	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39
190	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95
191	A	0.	237	A	0.	237	A	0.	237	A	0.	237	A	0.	237	A	0.	237	A	0.	237	A	0.	237
192	A	0.	363	A	0.	363	A	0.	363	A	0.	363	A	0.	363	A	0.	363	A	0.	363	A	0.02	363
193	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
194	A	0.01	95	A	0.01	95	A	0.01	95	A	0.01	95	A	0.	95	A	0.02	95	A	0.	95	A	0.02	95
195	A	0.01	146	A	0.01	146	A	0.01	146	A	0.01	146	A	0.02	146	A	0.	146	A	0.	146	A	0.	146
196	B	0.01	274	B	0.01	274	B	0.01	274	B	0.01	274	B	0.02	274	B	0.01	274	B	0.01	274	B	0.02	274
197	B	0.01	405	B	0.01	405	B	0.01	405	B	0.01	405	B	0.01	405	B	0.02	405	B	0.01	405	B	0.02	405
198	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
199	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.02	31
200	A	0.	56	A	0.	56	A	0.	56	A	0.	56	A	0.01	56	A	0.02	56	A	0.	56	A	0.	56
201	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.02	28	A	0.	28	A	0.	28
202	A	0.02	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.02	70	A	0.	70	A	0.	70
203	A	0.02	62	A	0.02	64	A	0.02	64	A	0.02	64	A	0.01	64	A	0.02	64	A	0.01	64	A	0.	64
204	A	0.02	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.02	70	A	0.01	70	A	0.	70
205	A	0.02	80	A	0.01	80	A	0.02	80	A	0.01	80	A	0.02	80	A	0.01	80	A	0.	80	A	0.	80
206	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.02	35	A	0.	35	A	0.	35
207	A	0.02	56	A	0.02	80	A	0.02	80	A	0.02	80	A	0.02	80	A	0.01	80	A	0.01	80	A	0.02	80
208	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
209	A	0.01	32	A	0.01	32	A	0.	32	A	0.	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32
210	A	0.	31	A	0.	31	A	0.	31	A	0.01	31	A	0.	31	A	0.01	31	A	0.	31	A	0.	31
211	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
212	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.02	21
213	B	0.03	111	B	0.04	111	B	0.04	111	B	0.06	111	B	0.04	111	B	0.03	111	B	0.02	111	B	0.02	111
214	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
215	A	0.02	73	A	0.02	73	A	0.02	73	A	0.02	73	A	0.02	73	A	0.02	73	A	0.01	73	A	0.02	73

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
216	A	0.03	157	A	0.02	157	A	0.02	157	A	0.02	157	A	0.02	157	A	0.02	157	A	0.01	157	A	0.02	157
217	B	0.03	158	B	0.02	273	B	0.02	273	B	0.02	273	B	0.02	273	B	0.02	273	B	0.01	273	B	0.02	273
218	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.02	39	A	0.	39	A	0.02	39
219	B	0.03	208	B	0.02	208	B	0.02	208	B	0.02	208	B	0.02	208	B	0.03	208	B	0.02	208	B	0.03	208
220	A	0.03	64	A	0.03	64	A	0.03	64	A	0.03	64	A	0.03	64	A	0.03	65	A	0.02	64	A	0.02	64
221	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
222	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
223	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
224	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
225	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
226	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
227	A	0.03	118	A	0.03	118	A	0.02	118	A	0.04	118	A	0.02	118	A	0.03	118	A	0.02	118	A	0.03	118
228	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
229	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
230	A	0.01	45	A	0.02	45	A	0.02	45	A	0.02	45	A	0.	45	A	0.02	45	A	0.01	45	A	0.02	45
231	A	0.02	144	A	0.02	144	A	0.02	144	A	0.02	144	A	0.02	144	A	0.02	144	A	0.01	144	A	0.02	144
232	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
233	A	0.	24	A	0.	24	A	0.	24	A	0.01	24	A	0.02	24	A	0.	24	A	0.	24	A	0.	24
234	A	0.01	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34
235	A	0.01	15	A	0.	15	A	0.	15	A	0.	15	A	0.02	15	A	0.	15	A	0.	15	A	0.02	15
236	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5
237	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.02	12
238	A	0.02	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.02	29	A	0.02	29	A	0.01	29	A	0.02	29
239	A	0.01	22	A	0.01	22	A	0.01	22	A	0.01	22	A	0.02	22	A	0.02	22	A	0.01	22	A	0.02	22
240	B	0.03	100	B	0.03	100	B	0.03	100	B	0.03	100	B	0.02	100	B	0.02	100	B	0.02	100	B	0.03	100
241	B	0.03	100	B	0.03	100	B	0.03	100	B	0.03	100	B	0.03	100	B	0.03	100	B	0.02	100	B	0.05	100
242	B	0.03	70	B	0.02	70	B	0.02	70	B	0.03	70	B	0.03	70	B	0.01	70	B	0.02	70	B	0.03	70
243	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.01	49	A	0.02	49

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
244	A	0.03	69	A	0.02	69	A	0.02	69	A	0.03	69	A	0.02	69	A	0.03	69	A	0.02	69	A	0.02	69
245	A	0.02	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.02	53	A	0.01	53	A	0.02	53
246	B	0.02	128	B	0.02	128	B	0.02	128	B	0.02	128	B	0.02	128	B	0.03	128	B	0.01	128	B	0.03	128
247	B	0.03	158	B	0.03	158	B	0.03	158	B	0.03	158	B	0.02	158	B	0.02	158	B	0.02	158	B	0.05	158
248	B	0.03	192	B	0.02	192	B	0.02	192	B	0.02	192	B	0.02	192	B	0.03	192	B	0.02	192	B	0.03	194
249	B	0.01	94	B	0.01	94	B	0.01	94	B	0.01	94	B	0.02	94	B	0.02	94	B	0.01	94	B	0.02	94
250	A	0.01	49	A	0.01	49	A	0.01	49	A	0.01	49	A	0.02	49	A	0.	49	A	0.01	49	A	0.02	49
251	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
252	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
253	B	0.05	328	B	0.06	328	B	0.06	328	B	0.06	328	B	0.05	328	B	0.05	328	B	0.03	328	B	0.05	328
254	A	0.01	11	A	0.01	11	A	0.01	11	A	0.01	11	A	0.01	11	A	0.01	11	A	0.	11	A	0.02	11
255	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.02	23
256	A	0.02	46	A	0.02	46	A	0.02	46	A	0.03	46	A	0.02	46	A	0.02	46	A	0.01	46	A	0.02	46
257	B	0.04	100	B	0.04	100	B	0.04	100	B	0.04	100	B	0.03	100	B	0.03	100	B	0.02	100	B	0.02	100
258	A	0.04	70	A	0.04	71	A	0.04	71	A	0.04	71	A	0.03	71	A	0.05	71	A	0.02	71	A	0.03	71
259	A	0.03	82	A	0.03	82	A	0.03	82	A	0.03	82	A	0.03	82	A	0.03	82	A	0.02	82	A	0.03	82
260	B	0.06	654	B	0.06	654	B	0.06	654	B	0.06	656	B	0.05	654	B	0.06	656	B	0.04	654	B	0.06	654
261	A	0.01	73	A	0.01	73	A	0.01	73	A	0.01	73	A	0.	73	A	0.02	73	A	0.01	73	A	0.02	73
262	A	0.01	91	A	0.01	91	A	0.01	91	A	0.	91	A	0.02	91	A	0.	91	A	0.01	91	A	0.	91
263	A	0.01	111	A	0.01	111	A	0.01	111	A	0.	111	A	0.	111	A	0.01	111	A	0.	111	A	0.	111
264	A	0.02	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.01	42	A	0.02	42
265	A	0.02	74	A	0.02	74	A	0.02	74	A	0.02	74	A	0.02	74	A	0.02	74	A	0.01	74	A	0.02	74
266	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
267	A	0.01	47	A	0.01	47	A	0.01	47	A	0.	47	A	0.	47	A	0.	47	A	0.	47	A	0.02	47
268	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
269	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.02	14	A	0.	14	A	0.02	14
270	A	0.01	61	A	0.01	61	A	0.01	61	A	0.01	61	A	0.02	61	A	0.	61	A	0.01	61	A	0.	61
271	A	0.01	49	A	0.01	49	A	0.01	49	A	0.01	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
272	A	0.01	43	A	0.	43	A	0.	43	A	0.	43	A	0.02	43	A	0.02	43	A	0.	43	A	0.	43
273	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.02	58	A	0.	58	A	0.	58	A	0.	58
274	A	0.01	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.01	31	A	0.	31	A	0.02	31
275	A	0.01	44	A	0.01	44	A	0.	44	A	0.01	44	A	0.	44	A	0.01	44	A	0.	44	A	0.	44
276	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.02	56	A	0.	56	A	0.01	56	A	0.	56
277	A	0.01	69	A	0.01	69	A	0.01	69	A	0.01	69	A	0.	69	A	0.02	69	A	0.	69	A	0.	69
278	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.02	22	A	0.	22	A	0.	22	A	0.	22
279	A	0.02	69	A	0.02	69	A	0.02	69	A	0.02	69	A	0.	69	A	0.02	69	A	0.01	69	A	0.02	69
280	A	0.01	91	A	0.01	91	A	0.01	91	A	0.01	91	A	0.	91	A	0.	91	A	0.01	91	A	0.	91
281	A	0.04	123	A	0.03	123	A	0.03	123	A	0.03	123	A	0.03	123	A	0.03	123	A	0.02	123	A	0.03	123
282	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.02	21	A	0.	21	A	0.01	21	A	0.02	21
283	A	0.03	69	A	0.03	69	A	0.02	69	A	0.03	69	A	0.02	69	A	0.02	69	A	0.02	69	A	0.03	69
284	A	0.01	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38
285	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.02	30
286	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.02	30	A	0.	30	A	0.	30	A	0.	30
287	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.01	40	A	0.	40	A	0.02	40
288	A	0.01	52	A	0.	52	A	0.	52	A	0.01	52	A	0.	52	A	0.	52	A	0.	52	A	0.02	52
289	A	0.	59	A	0.	59	A	0.	59	A	0.	59	A	0.	59	A	0.	59	A	0.	59	A	0.	59
290	A	0.01	80	A	0.01	80	A	0.01	80	A	0.02	80	A	0.02	80	A	0.	80	A	0.01	80	A	0.	80
291	A	0.02	140	A	0.02	140	A	0.02	140	A	0.01	140	A	0.02	140	A	0.01	140	A	0.01	140	A	0.02	140
292	A	0.01	30	A	0.	30	A	0.	30	A	0.	30	A	0.01	30	A	0.	30	A	0.	30	A	0.	30
293	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.01	18	A	0.	18	A	0.	18
294	A	0.02	109	A	0.02	109	A	0.02	109	A	0.02	109	A	0.02	109	A	0.02	109	A	0.01	109	A	0.	109
295	A	0.01	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.02	20
296	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.02	53	A	0.	53	A	0.	53	A	0.	53
297	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46
298	A	0.02	130	A	0.02	129	A	0.01	129	A	0.02	129	A	0.	129	A	0.02	129	A	0.	129	A	0.02	129
299	B	0.05	37	B	0.06	37	B	0.07	37	B	0.01	37	B	0.02	37	B	0.	37	B	0.04	37	B	0.	37

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
300	B	0.01	37	B	0.01	37	B	0.01	37	B	0.01	37	B	0.	37	B	0.	37	B	0.	37	B	0.02	37
301	C	0.1	74	C	0.1	74	C	0.08	74	C	0.07	74	C	0.06	74	C	0.05	74	C	0.06	74	C	0.06	74
302	C	0.06	76	C	0.06	76	C	0.06	76	C	0.05	76	C	0.06	76	C	0.05	76	C	0.04	76	C	0.05	76
303	C	0.08	35	C	0.06	35	C	0.05	35	C	0.05	35	C	0.04	64	C	0.05	64	C	0.03	64	C	0.05	64
304	C	0.04	42	C	0.03	42	C	0.03	42	C	0.03	42	C	0.03	71	C	0.03	71	C	0.02	71	C	0.03	71
305	C	0.04	42	C	0.03	42	C	0.03	42	C	0.03	42	C	0.03	71	C	0.03	71	C	0.02	71	C	0.03	71
306	C	0.05	15	C	0.03	15	C	0.03	15	C	0.03	15	C	0.03	15	C	0.02	15	C	0.02	15	C	0.02	15
307	A	0.02	108	A	0.01	108	A	0.04	51	A	0.04	51	A	0.04	51	A	0.05	51	A	0.03	51	A	0.03	51
308	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
309	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
310	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.01	60	A	0.01	60	A	0.03	60
311	B	0.03	46	B	0.02	46	B	0.02	46	B	0.02	46	B	0.03	46	B	0.03	46	B	0.02	46	B	0.03	46
312	A	0.01	22	A	0.01	22	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.02	22
313	C	0.12	116	C	0.1	116	C	0.08	116	C	0.06	116	C	0.06	116	C	0.08	116	C	0.05	116	C	0.08	116
314	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
315	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
316	C	0.04	29	C	0.04	29	C	0.03	29	C	0.04	29	C	0.03	29	C	0.03	29	C	0.02	29	C	0.03	29
317	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
318	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.	23	A	0.01	23	A	0.	23
319	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
320	C	0.01	112	C	0.	112	C	0.	112	C	0.03	112	C	0.01	112	C	0.	112	C	0.	112	C	0.	112
321	C	0.	112	C	0.01	112	C	0.	112	C	0.02	112	C	0.	112	C	0.	112	C	0.	162	C	0.02	162
322	A	0.01	18	A	0.01	18	A	0.01	18	A	0.02	18	A	0.02	18	A	0.02	18	A	0.01	18	A	0.02	18
323	A	0.01	18	A	0.01	18	A	0.01	18	A	0.01	18	A	0.01	18	A	0.02	18	A	0.01	18	A	0.02	18
324	C	0.2	184	C	0.08	184	C	0.06	184	C	0.06	184	C	0.06	184	C	0.06	184	C	0.04	184	C	0.05	184
325	C	0.05	188	C	0.05	188	C	0.05	188	C	0.05	188	C	0.05	188	C	0.06	188	C	0.04	188	C	0.05	188
326	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.	29	A	0.01	29	A	0.02	29
327	C	0.17	247419	C	0.16	247419	C	0.1	247419	C	0.1	247419	C	0.09	247419	C	0.09	247419	C	0.08	247419	C	0.12	247419

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
328	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
329	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
330	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
331	A	0.	11	A	0.	11	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
332	A	0.	18	A	0.	18	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
333	A	0.	24	A	0.	24	A	0.	27	A	0.	27	A	0.01	27	A	0.	27	A	0.	27	A	0.	27
334	A	0.05	30	A	0.04	30	A	0.01	35	A	0.	35	A	0.	35	A	0.02	35	A	0.	35	A	0.	35
335	B	0.01	39	B	0.01	39	B	0.01	46	B	0.01	46	B	0.	46	B	0.	46	B	0.	46	B	0.	46
336	A	0.01	23	A	0.01	23	A	0.01	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
337	A	0.04	18	A	0.04	24	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26
338	A	0.05	32	A	0.04	35	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
339	A	0.05	37	A	0.04	42	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50
340	A	0.06	40	A	0.04	42	A	0.02	42	A	0.01	42	A	0.	42	A	0.	42	A	0.	42	A	0.	42
341	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.02	19	A	0.	19	A	0.	19
342	A	0.01	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.02	26	A	0.	26	A	0.	26	A	0.	26
343	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.02	28
344	A	0.01	42	A	0.01	42	A	0.01	45	A	0.01	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45
345	A	0.01	38	A	0.01	38	A	0.01	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38
346	A	0.02	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.	37	A	0.02	37	A	0.	37	A	0.02	37
347	A	0.02	56	A	0.02	60	A	0.02	60	A	0.01	60	A	0.02	60	A	0.	60	A	0.	60	A	0.	60
348	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
349	A	0.	36	A	0.	36	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
350	A	0.01	52	A	0.01	52	A	0.01	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55
351	A	0.05	68	A	0.04	68	A	0.01	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.02	73
352	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
353	A	0.03	25	A	0.03	25	B	0.03	67	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
354	A	0.01	11	A	0.01	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
355	B	0.01	32	B	0.01	32	B	0.01	34	B	0.	34	B	0.01	34	B	0.	34	B	0.	34	B	0.	34

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
356	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
357	A	0.02	36	A	0.02	36	A	0.02	36	A	0.	36	A	0.02	36	A	0.	36	A	0.	36	A	0.	36
358	A	0.01	22	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
359	B	0.06	49	B	0.05	49	B	0.05	49	B	0.04	49	B	0.03	49	B	0.03	49	B	0.02	49	B	0.03	49
360	A	0.37	26	A	0.35	26	A	0.34	26	A	0.3	26	A	0.3	26	A	0.31	26	A	0.3	26	A	0.22	26
361	A	0.02	52	A	0.02	52	A	0.02	52	A	0.01	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52
362	A	0.03	76	A	0.03	76	A	0.02	76	A	0.01	76	A	0.	76	A	0.	76	A	0.	76	A	0.02	76
363	B	0.3	186	B	0.28	190	B	0.26	180	B	0.13	180	B	0.05	180	B	0.05	180	B	0.04	180	B	0.06	180
364	A	0.07	66	A	0.06	66	A	0.06	59	A	0.03	59	A	0.02	59	A	0.02	59	A	0.	59	A	0.	59
365	A	0.01	33	A	0.01	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
366	A	0.09	21	B	0.09	30	A	0.1	21	A	0.03	21	A	0.02	21	A	0.02	21	A	0.01	21	A	0.03	21
367	B	0.03	22	B	0.03	22	A	0.04	20	A	0.02	20	A	0.02	20	A	0.01	20	A	0.	20	A	0.	20
368	A	0.07	14	A	0.06	14	A	0.06	14	A	0.03	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
369	A	0.03	31	A	0.03	35	A	0.04	26	A	0.02	26	A	0.	26	A	0.01	26	A	0.	26	A	0.	26
370	A	0.08	29	A	0.08	29	A	0.08	29	A	0.03	29	A	0.	29	A	0.02	29	A	0.	29	A	0.	29
371	A	0.07	35	A	0.07	35	A	0.07	35	A	0.03	35	A	0.02	35	A	0.01	35	A	0.01	35	A	0.02	35
372	A	0.08	19	A	0.08	19	A	0.08	19	A	0.03	19	A	0.02	19	A	0.02	19	A	0.01	19	A	0.03	19
373	A	0.11	35	A	0.09	35	A	0.07	35	A	0.04	35	A	0.02	35	A	0.02	35	A	0.01	35	A	0.02	35
374	B	0.07	27	B	0.06	27	B	0.07	27	B	0.04	27	B	0.03	27	B	0.02	27	B	0.02	27	B	0.03	27
375	A	0.06	12	A	0.05	12	A	0.05	12	A	0.04	12	A	0.02	12	A	0.02	12	A	0.01	12	A	0.02	12
376	A	0.07	43	A	0.06	43	A	0.06	43	A	0.04	43	A	0.02	43	A	0.03	43	A	0.01	43	A	0.02	43
377	A	0.06	20	A	0.05	20	A	0.04	20	A	0.02	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
378	A	0.04	8	A	0.04	8	A	0.05	8	A	0.02	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8
379	A	0.16	29	A	0.15	29	A	0.16	29	A	0.03	29	A	0.02	29	A	0.	29	A	0.	29	A	0.	29
380	A	0.09	39	A	0.09	39	A	0.06	39	A	0.02	39	A	0.	39	A	0.	39	A	0.01	39	A	0.02	39
381	A	0.05	29	A	0.05	29	A	0.07	29	A	0.04	29	A	0.	29	A	0.02	29	A	0.01	29	A	0.	29
382	A	0.04	43	A	0.03	43	A	0.03	43	A	0.02	43	A	0.02	43	A	0.02	43	A	0.	43	A	0.	43
383	B	0.06	20	B	0.06	20	B	0.07	20	B	0.04	20	B	0.03	20	B	0.02	20	B	0.01	20	B	0.02	20

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
384	A	0.03	13	A	0.03	13	A	0.02	13	A	0.01	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
385	A	0.05	19	A	0.06	19	A	0.05	19	A	0.03	19	A	0.02	19	A	0.02	19	A	0.01	19	A	0.	19
386	A	0.08	18	A	0.08	18	A	0.08	18	A	0.04	18	A	0.01	18	A	0.02	18	A	0.01	18	A	0.02	18
387	A	0.08	34	A	0.08	34	A	0.1	34	A	0.04	34	A	0.03	34	A	0.02	34	A	0.01	34	A	0.02	34
388	A	0.09	28	A	0.09	28	A	0.09	28	A	0.05	28	A	0.03	28	A	0.02	28	A	0.02	28	A	0.02	28
389	A	0.11	28	A	0.1	28	A	0.1	28	A	0.05	28	A	0.03	28	A	0.03	28	A	0.02	28	A	0.02	28
390	A	0.03	22	A	0.03	22	A	0.02	22	A	0.02	22	A	0.01	22	A	0.02	22	A	0.01	22	A	0.02	22
391	A	0.04	31	A	0.04	31	A	0.03	31	A	0.02	31	A	0.01	31	A	0.02	31	A	0.01	31	A	0.02	31
392	C	0.04	9	C	0.04	9	C	0.03	9	C	0.02	9	A	0.01	39	A	0.02	39	A	0.01	39	A	0.02	39
393	A	0.05	25	A	0.04	25	A	0.04	25	A	0.03	25	A	0.01	25	A	0.02	25	A	0.01	25	A	0.02	25
394	A	0.06	76	A	0.05	76	A	0.05	76	A	0.04	76	A	0.02	76	A	0.03	76	A	0.01	76	A	0.02	76
395	A	0.05	47	A	0.04	47	A	0.04	47	A	0.02	47	A	0.01	47	A	0.02	47	A	0.01	47	A	0.03	47
396	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
397	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49
398	A	0.02	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.	53	A	0.	53
399	A	0.07	130	A	0.07	130	A	0.07	130	A	0.06	130	A	0.05	130	A	0.05	130	A	0.03	130	A	0.05	130
400	B	0.6	227	B	0.53	219	B	0.46	649	B	0.37	643	B	0.36	643	B	0.38	649	B	0.26	643	B	0.33	643
401	A	0.03	97	A	0.02	97	A	0.02	97	A	0.02	97	A	0.01	97	A	0.02	97	A	0.01	97	A	0.02	97
402	C	0.06	257	C	0.06	257	C	0.04	257	C	0.04	257	C	0.03	257	C	0.03	257	C	0.02	257	C	0.03	257
403	C	0.06	315	C	0.06	315	C	0.06	315	C	0.05	315	C	0.04	315	C	0.05	315	C	0.03	315	C	0.05	315
404	C	0.08	374	C	0.07	374	C	0.07	374	C	0.06	374	C	0.06	374	C	0.06	374	C	0.04	374	C	0.03	374
405	C	0.15	301	C	0.12	301	C	0.13	301	C	0.09	301	C	0.07	301	C	0.08	301	C	0.05	301	C	0.05	301
406	C	0.14	506	C	0.12	506	C	0.13	506	C	0.11	506	C	0.1	506	C	0.1	506	C	0.08	506	C	0.11	506
407	C	0.09	334	C	0.08	334	C	0.09	334	C	0.07	334	C	0.05	334	C	0.06	334	C	0.05	334	C	0.06	334
408	B	0.07	84	B	0.06	84	B	0.05	84	B	0.04	84	B	0.02	84	B	0.03	84	B	0.01	84	B	0.02	84
409	B	0.05	197	B	0.04	197	B	0.04	197	B	0.03	197	B	0.02	197	B	0.03	197	B	0.01	197	B	0.02	197
410	B	0.07	133	B	0.06	133	B	0.07	133	B	0.05	133	B	0.04	133	B	0.05	133	B	0.03	133	B	0.05	133
411	C	0.36	509	C	0.27	509	C	0.23	509	C	0.12	509	C	0.05	509	C	0.06	509	C	0.05	509	C	0.03	509

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
412	A	0.21	16	A	0.19	16	A	0.19	16	A	0.16	16	A	0.15	16	A	0.17	16	A	0.12	16	A	0.12	16
413	C	0.23	310	C	0.2	318	C	0.19	1135	C	0.16	1167	C	0.16	1167	C	0.18	1167	C	0.12	1167	C	0.2	1167
414	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
415	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
416	C	0.51	241	C	0.44	247	C	0.38	241	C	0.28	247	C	0.18	250	C	0.22	244	C	0.16	250	C	0.17	247
417	C	5.63	22884	C	5.42	23004	C	4.82	515352	C	4.5	515544	C	4.26	517085	C	4.58	515160	C	4.04	517149	C	9.97	515736
418	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
419	A	0.02	56	A	0.02	56	A	0.01	56	A	0.01	56	A	0.02	56	A	0.	56	A	0.	56	A	0.	56
420	B	0.11	109	B	0.09	109	B	0.09	109	B	0.07	109	B	0.04	109	B	0.06	109	B	0.04	109	B	0.05	109
421	A	0.1	87	A	0.08	87	A	0.08	87	A	0.06	87	A	0.05	87	A	0.05	87	A	0.04	87	A	0.06	87
422	A	0.04	44	A	0.03	44	A	0.03	44	A	0.03	57	A	0.03	57	A	0.03	57	A	0.02	57	A	0.02	57
423	B	0.12	95	B	0.11	95	B	0.11	95	B	0.08	95	B	0.05	95	B	0.05	95	B	0.03	95	B	0.06	95
424	A	0.11	53	A	0.1	53	A	0.1	53	B	0.09	105	B	0.05	105	B	0.05	105	B	0.04	105	B	0.03	105
425	A	0.07	46	A	0.06	46	A	0.06	46	A	0.04	43	A	0.03	43	A	0.02	43	A	0.02	43	A	0.03	43
426	A	0.22	134	A	0.2	135	A	0.2	134	A	0.12	134	A	0.06	135	A	0.06	135	A	0.04	134	A	0.06	134
427	C	4.51	97512	C	6.93	97512	C	6.44	104722	C	6.17	105586	C	6.62	104722	C	6.13	133398	C	5.92	134286	C	13.68	134286
428	A	0.16	38	A	0.14	38	A	0.1	26	A	0.07	38	A	0.02	38	A	0.03	38	A	0.02	38	A	0.02	38
429	B	0.06	67	B	0.05	67	B	0.05	68	B	0.04	68	B	0.03	68	B	0.03	67	B	0.03	67	B	0.03	68
430	A	0.04	55	A	0.04	55	A	0.03	55	A	0.03	55	A	0.02	55	A	0.02	55	A	0.01	55	A	0.03	55
431	B	0.04	39	B	0.03	39	B	0.03	39	B	0.02	39	B	0.02	39	B	0.02	39	B	0.01	39	B	0.02	39
432	B	0.07	109	B	0.06	109	B	0.06	109	B	0.05	109	B	0.03	109	B	0.05	109	B	0.03	109	B	0.05	109
433	B	0.23	271	B	0.2	271	B	0.2	271	B	0.14	271	B	0.13	271	B	0.08	271	B	0.06	271	B	0.08	271
434	C	0.57	754	C	0.26	754	C	0.25	770	C	0.23	770	C	0.21	770	C	0.23	770	C	0.17	770	C	0.28	770
435	C	0.41	473	C	0.28	473	C	0.29	911	C	0.18	911	C	0.18	911	C	0.22	911	C	0.12	911	C	0.09	911
436	C	0.79	975	C	0.54	975	C	0.55	1077	C	0.47	1077	C	0.38	1077	C	0.44	1077	C	0.33	1077	C	0.5	1077
437	A	0.68	61	B	0.47	64	A	0.44	61	B	0.36	64	B	0.22	64	A	0.27	61	B	0.2	64	A	0.23	61
438	B	0.37	1615	B	0.34	1593	B	0.31	3937	B	0.26	3937	B	0.22	3937	B	0.25	3933	B	0.2	3933	B	0.33	3937
439	B	0.52	117	B	0.27	117	B	0.24	123	B	0.18	123	B	0.12	123	B	0.16	123	B	0.11	123	B	0.12	123

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
440	A	0.04	61	A	0.03	61	A	0.03	61	A	0.02	61	A	0.02	61	A	0.03	61	A	0.01	61	A	0.	61
441	A	0.03	41	A	0.03	41	A	0.02	41	A	0.02	41	A	0.02	41	A	0.01	41	A	0.01	41	A	0.	41
442	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
443	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
444	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
445	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
446	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
447	B	0.78	559	B	0.51	559	B	0.54	1271	B	0.4	1271	B	0.25	1271	B	0.32	1271	B	0.23	1271	B	0.36	1271
448	A	0.05	137	A	0.04	137	A	0.04	137	A	0.03	137	A	0.03	137	A	0.02	137	A	0.02	137	A	0.02	137
449	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
450	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
451	A	0.04	26	A	0.03	26	A	0.03	26	A	0.02	26	A	0.06	26	A	0.09	26	A	0.06	26	A	0.06	26
452	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
453	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
454	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
455	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
456	B	0.18	88	B	0.15	88	B	0.14	100	B	0.1	100	B	0.06	100	B	0.06	100	B	0.04	100	B	0.05	100
457	C	0.46	240	C	0.31	240	C	0.3	374	C	0.4	374	C	0.23	374	C	0.24	374	C	0.12	374	C	0.12	374
458	A	0.01	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.	24	A	0.01	24	A	0.	24	A	0.	24
459	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.01	29	A	0.	29	A	0.	29
460	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.01	60	A	0.	60
461	A	0.01	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.02	37	A	0.	37	A	0.02	37
462	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.	46	A	0.01	46	A	0.01	46	A	0.	46
463	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.02	15
464	A	0.02	33	A	0.01	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.01	33	A	0.	33	A	0.02	33
465	A	0.02	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.02	58	A	0.01	58	A	0.02	58
466	A	0.	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.02	17
467	A	0.01	28	A	0.	28	A	0.01	28	A	0.	28	A	0.02	28	A	0.02	28	A	0.	28	A	0.02	28

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
468	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
469	A	0.01	23	A	0.	23	A	0.	23	A	0.	23	A	0.01	23	A	0.	23	A	0.	23	A	0.02	23
470	A	0.01	23	A	0.	23	A	0.	23	A	0.01	23	A	0.	23	A	0.	23	A	0.	23	A	0.02	23
471	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16	A	0.	16	A	0.	16	A	0.02	16
472	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.01	47	A	0.01	47	A	0.02	47
473	A	0.01	22	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
474	A	0.07	28	B	0.03	121	A	0.04	28	A	0.04	28	A	0.03	28	A	0.05	28	A	0.03	28	A	0.03	28
475	A	0.01	22	A	0.01	22	A	0.01	22	A	0.01	22	A	0.02	22	A	0.01	22	A	0.	22	A	0.	22
476	A	0.01	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.01	58	A	0.	58	A	0.	58
477	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25
478	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
479	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
480	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30
481	A	0.01	30	A	0.	30	A	0.	30	A	0.	30	A	0.02	30	A	0.	30	A	0.	30	A	0.	30
482	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.02	30	A	0.	30	A	0.01	30	A	0.02	30
483	A	0.02	70	A	0.02	70	A	0.02	66	A	0.01	66	A	0.	66	A	0.02	66	A	0.	66	A	0.	66
484	A	0.04	57	A	0.04	57	A	0.04	66	A	0.02	66	A	0.	66	A	0.	66	A	0.	66	A	0.	66
485	A	0.05	96	A	0.04	96	A	0.04	83	A	0.02	83	A	0.	83	A	0.	83	A	0.	83	A	0.	83
486	A	0.	32	A	0.01	32	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
487	B	0.18	111	B	0.16	111	B	0.17	111	B	0.11	111	B	0.05	111	B	0.04	111	B	0.04	111	B	0.06	103
488	A	0.2	30	A	0.19	32	A	0.19	32	B	0.08	76	B	0.05	76	B	0.03	76	B	0.02	76	B	0.09	76
489	A	0.01	13	A	0.01	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
490	A	0.08	55	A	0.07	55	A	0.07	55	A	0.06	55	A	0.03	55	A	0.04	55	A	0.03	55	A	0.06	55
491	A	0.13	59	A	0.12	59	A	0.12	59	A	0.07	59	A	0.05	59	A	0.05	59	A	0.04	59	A	0.06	59
492	C	1.05	44	C	0.99	44	C	0.87	44	C	0.57	44	C	0.23	44	C	0.25	44	C	0.18	44	C	0.67	44
493	A	0.32	37	A	0.3	37	A	0.23	37	A	0.12	37	A	0.05	37	A	0.04	37	A	0.04	37	A	0.08	37
494	A	0.01	23	A	0.01	23	A	0.	23	A	0.	23	A	0.02	23	A	0.	23	A	0.	23	A	0.	23
495	A	0.03	65	A	0.02	65	A	0.02	65	A	0.02	65	A	0.02	65	A	0.02	65	A	0.02	65	A	0.05	65

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Table 12 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
496	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8
497	A	0.01	19	A	0.01	19	A	0.01	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.02	19
498	A	0.01	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.	24	A	0.	24	A	0.	24	A	0.02	24
499	A	0.01	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31
500	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
501	A	0.03	56	A	0.03	56	A	0.03	56	A	0.03	56	A	0.02	56	A	0.03	56	A	0.02	56	A	0.05	56
502	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
503	A	0.03	59	A	0.03	59	A	0.02	59	A	0.03	59	A	0.03	59	A	0.03	59	A	0.02	59	A	0.08	59
504	A	0.05	90	A	0.05	90	A	0.04	90	A	0.04	90	A	0.05	90	A	0.05	90	A	0.03	90	A	0.16	90
505	A	0.03	109	A	0.02	109	A	0.02	109	A	0.02	109	A	0.03	109	A	0.02	109	A	0.02	109	A	0.03	109
506	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
507	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.01	29	A	0.	29	A	0.	29	A	0.	29
508	A	0.02	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.03	59	A	0.01	59	A	0.06	59
509	A	0.04	90	A	0.04	90	A	0.04	90	A	0.04	90	A	0.03	90	A	0.03	90	A	0.03	90	A	0.17	90
510	A	0.03	109	A	0.02	109	A	0.02	109	A	0.02	109	A	0.03	109	A	0.02	109	A	0.02	109	A	0.02	109
511	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
512	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16	A	0.	16	A	0.	16	A	0.	16
513	A	0.02	46	A	0.02	46	A	0.01	46	A	0.01	46	A	0.02	46	A	0.01	46	A	0.01	46	A	0.	46
514	A	0.	62	A	0.	62	A	0.	62	A	0.	62	A	0.	62	A	0.	62	A	0.	62	A	0.	62
515	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.02	78	A	0.	78	A	0.	78
516	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
517	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
518	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46
519	A	0.	62	A	0.	62	A	0.	62	A	0.	62	A	0.	62	A	0.	62	A	0.	62	A	0.	62
520	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78
521	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
522	A	0.01	31	A	0.01	31	A	0.02	31	A	0.02	31	A	0.02	31	A	0.01	31	A	0.01	31	A	0.02	31
523	A	0.01	95	A	0.01	95	A	0.01	95	A	0.01	95	A	0.	95	A	0.01	95	A	0.01	95	A	0.	95

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Table 12 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
524	A	0.01	14	A	0.01	14	A	0.01	14	A	0.01	14	A	0.	14	A	0.01	14	A	0.	14	A	0.02	14
525	A	0.01	38	A	0.01	38	A	0.01	38	A	0.01	38	A	0.	38	A	0.	38	A	0.	38	A	0.02	38
526	A	0.02	29	A	0.02	29	A	0.02	29	A	0.02	29	A	0.02	29	A	0.02	29	A	0.01	29	A	0.	29
527	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
528	A	0.01	57	A	0.01	57	A	0.	57	A	0.01	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57
529	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
530	A	0.01	15	A	0.01	15	A	0.01	15	A	0.01	15	A	0.	15	A	0.02	15	A	0.	15	A	0.	15
531	A	0.01	17	A	0.01	17	A	0.01	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
532	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
533	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
534	A	0.03	37	A	0.03	37	A	0.03	37	A	0.02	37	A	0.02	39	A	0.02	39	A	0.02	39	A	0.03	39
535	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.02	22	A	0.	22	A	0.	22	A	0.	22
536	A	0.01	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31
537	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.01	28	A	0.01	28	A	0.02	28
538	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.02	10
539	A	0.02	26	A	0.02	26	A	0.02	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.03	26
540	A	0.01	20	A	0.01	20	A	0.	20	A	0.	20	A	0.02	20	A	0.01	20	A	0.	20	A	0.	20
541	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
542	C	0.07	32	C	0.09	32	C	0.06	32	C	0.06	32	C	0.05	32	C	0.06	32	C	0.04	32	C	0.05	32
543	C	0.06	55	C	0.06	55	C	0.06	55	C	0.05	55	C	0.04	55	C	0.05	55	C	0.04	55	C	0.06	55
544	A	0.02	45	A	0.02	45	A	0.01	45	A	0.01	45	A	0.	45	A	0.	45	A	0.	45	A	0.02	45
545	A	0.02	68	A	0.02	68	A	0.02	68	A	0.01	68	A	0.	68	A	0.	68	A	0.	68	A	0.	68
546	C	0.14	62	C	0.13	62	C	0.11	62	C	0.08	62	C	0.06	62	C	0.07	62	C	0.05	62	C	0.06	62
547	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
548	A	0.02	28	A	0.02	28	A	0.02	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
549	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
550	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
551	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
552	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
553	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
554	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
555	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
556	B	0.09	33	B	0.08	33	B	0.08	33	B	0.04	33	B	0.02	33	B	0.02	33	B	0.01	33	B	0.03	33
557	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
558	A	0.08	8	A	0.07	8	A	0.07	8	A	0.03	8	A	0.03	8	A	0.01	8	A	0.01	8	A	0.03	8
559	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
560	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
561	B	0.12	53	B	0.11	53	B	0.09	53	B	0.04	53	B	0.03	53	B	0.03	53	B	0.02	53	B	0.05	53
562	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
563	B	0.1	51	B	0.09	51	B	0.09	51	B	0.04	51	B	0.02	51	B	0.02	51	B	0.02	51	B	0.03	51
564	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
565	A	0.01	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.02	27	A	0.	27	A	0.	27	A	0.	27
566	A	0.01	36	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
567	A	0.02	78	A	0.02	78	A	0.01	78	A	0.01	78	A	0.	78	A	0.	78	A	0.	78	A	0.02	78
568	A	0.01	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40
569	A	0.01	78	A	0.01	78	A	0.01	78	A	0.	78	A	0.02	78	A	0.02	78	A	0.	78	A	0.	78
570	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.	3
571	A	0.	3	A	0.	3	A	0.	3	A	0.	3	A	0.02	3	A	0.	3	A	0.	3	A	0.	3
572	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
573	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
574	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
575	A	0.	6	A	0.	6	A	0.02	6	A	0.01	6	A	0.	6	A	0.	6	A	0.05	6	A	0.	6
576	A	0.01	11	A	0.01	11	A	0.01	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
577	A	0.05	18	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
578	B	0.04	26	B	0.02	26	B	0.	26	B	0.	26	B	0.	26	B	0.	26	B	0.	26	B	0.	26
579	A	0.06	11	A	0.01	13	A	0.01	13	A	0.03	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
580	A	0.05	21	A	0.01	23	A	0.01	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.02	23
581	A	0.02	17	A	0.02	17	A	0.01	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.02	17
582	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
583	A	0.01	36	A	0.01	36	A	0.02	36	A	0.01	36	A	0.	36	A	0.02	36	A	0.	36	A	0.	36
584	A	0.01	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.02	16	A	0.	16	A	0.	16	A	0.	16
585	A	0.03	55	A	0.03	55	A	0.03	55	A	0.02	55	A	0.02	55	A	0.02	55	A	0.01	55	A	0.	55
586	B	0.07	98	B	0.07	98	B	0.08	98	B	0.07	98	B	0.06	98	B	0.07	98	B	0.03	98	B	0.05	98
587	B	0.04	74	B	0.04	74	B	0.04	74	B	0.03	74	B	0.02	74	B	0.02	74	B	0.01	74	B	0.02	74
588	B	0.03	55	B	0.03	55	B	0.02	55	B	0.01	55	B	0.02	55	B	0.01	55	B	0.01	55	B	0.	55
589	C	0.14	78	C	0.12	78	C	0.09	78	C	0.05	78	C	0.03	78	C	0.03	78	C	0.02	78	C	0.03	78
590	A	0.07	23	A	0.06	23	A	0.05	23	A	0.03	23	A	0.	23	A	0.02	23	A	0.02	23	A	0.02	23
591	A	0.18	23	A	0.19	23	A	0.19	23	A	0.06	23	A	0.02	23	A	0.	23	A	0.	23	A	0.02	23
592	C	0.29	342	C	0.24	342	C	0.21	341	C	0.14	341	C	0.08	341	C	0.08	341	C	0.07	341	C	0.08	341
593	A	0.02	30	A	0.02	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.01	30	A	0.	30	A	0.	30
594	A	0.06	19	A	0.05	19	A	0.04	19	A	0.03	19	A	0.02	19	A	0.02	19	A	0.02	19	A	0.02	19
595	B	0.07	68	B	0.04	68	B	0.06	68	B	0.03	68	B	0.02	68	B	0.02	68	B	0.02	68	B	0.03	68
596	A	0.02	28	A	0.02	28	A	0.02	28	A	0.01	28	A	0.02	28	A	0.02	28	A	0.01	28	A	0.02	28
597	A	0.02	28	A	0.02	28	A	0.02	28	A	0.02	28	A	0.02	28	A	0.02	28	A	0.01	28	A	0.02	28
598	A	0.07	14	A	0.05	14	A	0.05	14	A	0.03	14	A	0.02	14	A	0.02	14	A	0.02	14	A	0.03	14
599	A	0.04	16	A	0.03	16	A	0.03	16	A	0.02	16	A	0.02	16	A	0.02	16	A	0.01	16	A	0.	16
600	A	0.13	20	A	0.11	20	A	0.18	20	A	0.08	20	A	0.01	20	A	0.03	20	A	0.01	20	A	0.03	20
601	B	0.12	28	B	0.03	28	B	0.07	90	B	0.03	90	B	0.02	90	B	0.02	90	B	0.01	90	B	0.02	90
602	B	0.	14	B	0.	14	B	0.	14	B	0.	14	B	0.	14	B	0.	14	B	0.	14	B	0.	14
603	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
604	A	0.04	2	A	0.03	2	A	0.02	2	A	0.01	2	A	0.	2	A	0.02	2	A	0.	2	A	0.	2
605	A	0.02	24	A	0.02	24	A	0.02	24	A	0.02	24	A	0.02	24	A	0.02	24	A	0.01	24	A	0.02	24
606	A	0.02	18	A	0.02	18	A	0.02	18	A	0.01	18	A	0.02	18	A	0.02	18	A	0.	18	A	0.02	18
607	A	0.03	18	A	0.03	18	A	0.03	18	A	0.02	18	A	0.02	18	A	0.01	18	A	0.01	18	A	0.02	18

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
608	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.02	34	A	0.01	34	A	0.01	34	A	0.03	34
609	A	0.01	61	A	0.01	61	A	0.01	61	A	0.01	61	A	0.02	61	A	0.	61	A	0.01	61	A	0.02	61
610	A	0.03	23	A	0.03	23	A	0.02	23	A	0.02	23	A	0.03	23	A	0.02	23	A	0.02	23	A	0.02	23
611	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
612	A	0.	72	A	0.	72	A	0.	72	A	0.	72	A	0.02	72	A	0.	72	A	0.	72	A	0.	72
613	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
614	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53
615	A	0.	37	A	0.	37	A	0.	37	A	0.01	37	A	0.	37	A	0.02	37	A	0.	37	A	0.	37
616	C	0.01	32	C	0.04	32	C	0.06	32	C	0.01	32	C	0.02	32	C	0.01	32	C	0.01	32	C	0.02	32
617	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.02	30	A	0.	30	A	0.01	30	A	0.02	30
618	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
619	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
620	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
621	A	0.03	24	A	0.02	24	A	0.03	24	A	0.02	24	A	0.01	24	A	0.	24	A	0.02	24	A	0.	24
622	A	0.01	15	A	0.01	15	A	0.01	15	A	0.01	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
623	A	0.01	17	A	0.01	17	A	0.01	17	A	0.	17	A	0.02	17	A	0.	17	A	0.	17	A	0.	17
624	A	0.01	17	A	0.01	17	A	0.01	17	A	0.01	17	A	0.01	17	A	0.02	17	A	0.	17	A	0.	17
625	A	0.01	37	A	0.	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
626	A	0.	39	A	0.01	39	A	0.01	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39
627	A	0.01	43	A	0.	43	A	0.	43	A	0.	43	A	0.	43	A	0.	43	A	0.	43	A	0.	43
628	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
629	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.02	21
630	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.02	30	A	0.	30	A	0.	30
631	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39
632	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
633	A	0.01	5	A	0.01	5	A	0.01	5	A	0.	5	C	0.35	150	C	0.33	146	C	0.26	150	C	1.06	146
634	A	0.02	10	A	0.02	10	A	0.01	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
635	A	0.01	12	A	0.01	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
636	A	0.01	8	A	0.01	8	A	0.01	8	A	0.	8	C	0.12	308	C	0.14	308	C	0.11	552	C	0.17	552
637	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
638	A	0.01	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.01	26	A	0.02	26
639	A	0.03	32	A	0.02	32	A	0.03	32	A	0.04	32	A	0.03	32	A	0.03	32	A	0.02	32	A	0.06	32
640	A	0.04	43	A	0.03	43	A	0.04	43	A	0.04	43	A	0.05	43	A	0.03	43	A	0.02	43	A	0.08	43
641	C	0.07	126	C	0.06	126	C	0.06	212	C	0.05	212	C	0.05	212	C	0.05	212	C	0.02	212	C	0.02	212
642	C	0.57	782	C	0.53	782	C	0.53	782	C	0.55	782	C	0.51	782	C	0.49	782	C	0.36	782	C	0.76	782
643	C	0.25	164	C	0.22	164	C	0.22	164	C	0.18	164	C	0.17	164	C	0.17	164	C	0.13	228	C	0.26	228
644	B	0.18	106	B	0.17	106	B	0.24	106	B	0.19	106	B	0.15	106	B	0.13	106	B	0.14	106	B	0.92	106
645	A	0.05	52	A	0.05	52	A	0.05	52	A	0.04	52	A	0.03	52	A	0.03	52	A	0.02	52	A	0.03	52
646	A	0.05	37	A	0.05	37	A	0.03	37	A	0.03	37	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49
647	A	0.02	42	A	0.02	42	A	0.01	42	C	0.15	88	C	0.09	209	C	0.09	209	C	0.07	209	C	0.11	209
648	A	0.02	48	A	0.02	48	A	0.02	48	C	0.17	103	C	0.09	209	C	0.09	209	C	0.07	209	C	0.11	209
649	A	0.05	56	A	0.06	56	A	0.06	56	A	0.04	56	A	0.04	52	A	0.03	52	A	0.02	52	A	0.02	52
650	A	0.12	165	A	0.09	165	A	0.07	165	A	0.06	165	A	0.03	149	A	0.03	149	A	0.02	149	A	0.03	149
651	A	0.07	31	A	0.06	31	A	0.07	31	A	0.05	31	A	0.04	34	A	0.05	34	A	0.03	34	A	0.05	34
652	A	0.07	33	A	0.07	33	C	0.17	68	C	0.14	68	F	0	0	F	0	0	F	0	0	F	0	0
653	C	0.19	134	C	0.17	134	C	0.16	134	C	0.13	134	F	0	0	F	0	0	F	0	0	F	0	0
654	A	0.06	58	A	0.06	58	A	0.07	57	A	0.05	57	A	0.03	57	A	0.03	57	A	0.03	57	A	0.02	57
655	A	0.06	37	A	0.06	37	A	0.05	43	A	0.04	43	A	0.04	40	A	0.03	40	A	0.02	40	A	0.03	40
656	C	0.37	430	C	0.31	430	C	0.32	430	C	0.23	430	F	0	0	F	0	0	F	0	0	F	0	0
657	C	0.29	227	C	0.23	227	C	0.24	227	C	0.17	227	F	0	0	F	0	0	F	0	0	F	0	0
658	C	0.77	201	C	0.69	201	C	0.91	201	C	0.42	201	C	0.14	170	C	0.14	170	C	0.11	170	C	0.12	170
659	A	0.05	32	A	0.05	32	A	0.05	32	A	0.05	32	A	0.04	34	A	0.03	34	A	0.03	34	A	0.03	34
660	A	0.09	53	A	0.07	53	A	0.06	53	A	0.05	53	A	0.04	53	A	0.14	53	A	0.03	53	A	0.03	53
661	B	0.06	46	B	0.05	46	B	0.05	46	B	0.04	46	B	0.04	38	B	0.05	38	B	0.03	38	B	0.05	38
662	B	0.06	47	B	0.06	47	B	0.08	47	B	0.05	47	B	0.05	39	B	0.08	39	B	0.04	39	B	0.02	39
663	A	0.06	63	A	0.06	63	A	0.06	63	A	0.05	63	A	0.04	51	A	0.03	51	A	0.02	51	A	0.03	51

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
664	C	0.22	102	C	0.2	102	C	0.22	102	C	0.19	102	C	0.16	120	C	0.19	120	C	0.39	120	C	0.16	120
665	C	0.25	97	C	0.23	97	C	0.26	97	C	0.18	97	C	0.13	115	C	0.14	115	C	0.09	115	C	0.09	115
666	A	0.07	43	A	0.06	43	A	0.06	43	A	0.05	43	A	0.04	43	A	0.05	43	A	0.03	43	A	0.05	43
667	C	0.2	158	C	0.15	158	C	0.16	158	C	0.13	158	F	0	0	F	0	0	F	0	0	F	0	0
668	A	0.17	69	A	0.08	69	A	0.08	69	A	0.06	69	A	0.04	76	A	0.04	76	A	0.03	76	A	0.03	76
669	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
670	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
671	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
672	C	0.07	128	C	0.05	128	C	0.05	128	A	0.07	70	A	0.05	114	A	0.05	114	A	0.04	114	A	0.03	114
673	A	0.01	29	A	0.01	29	A	0.01	29	A	0.03	43	A	0.03	35	A	0.03	35	A	0.02	35	A	0.	35
674	C	0.05	139	C	0.05	139	C	0.05	139	A	0.08	92	A	0.05	98	A	0.06	98	A	0.04	98	A	0.03	98
675	C	0.06	149	C	0.05	149	C	0.05	149	A	0.15	109	A	0.1	159	A	0.08	159	A	0.06	159	A	0.12	159
676	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.	23	A	0.	23	A	0.	23
677	A	0.01	30	A	0.01	30	A	0.02	30	A	0.01	30	A	0.01	30	A	0.02	30	A	0.01	30	A	0.	30
678	C	0.03	79	C	0.03	79	C	0.03	79	B	0.22	175	B	0.13	263	B	0.12	263	B	0.09	263	B	0.17	263
679	A	0.01	25	A	0.01	25	A	0.01	25	A	0.03	25	A	0.04	28	A	0.03	28	A	0.02	28	A	0.03	28
680	A	0.	34	A	0.	34	A	0.	34	A	0.03	33	A	0.03	33	A	0.03	33	A	0.02	33	A	0.03	33
681	A	0.03	57	A	0.02	57	A	0.03	57	A	0.03	59	A	0.03	59	A	0.03	59	A	0.02	59	A	0.	59
682	A	0.04	78	A	0.04	76	A	0.03	76	A	0.03	86	A	0.03	76	A	0.03	76	A	0.02	76	A	0.02	76
683	C	0.27	199	C	0.23	199	C	0.24	199	C	0.19	199	F	0	0	F	0	0	F	0	0	F	0	0
684	C	0.49	305	C	0.37	305	C	0.39	305	C	0.31	305	F	0	0	F	0	0	F	0	0	F	0	0
685	C	0.42	198	C	0.36	198	C	0.56	198	C	0.25	198	F	0	0	F	0	0	F	0	0	F	0	0
686	C	0.43	128	C	0.36	128	C	0.4	128	C	0.28	128	F	0	0	F	0	0	F	0	0	F	0	0
687	C	0.48	121	C	0.4	121	C	0.51	121	C	0.33	121	F	0	0	F	0	0	F	0	0	F	0	0
688	C	0.65	197	C	0.58	197	C	0.88	197	C	0.39	197	F	0	0	F	0	0	F	0	0	F	0	0
689	C	0.73	240	C	0.65	240	C	1.05	240	C	0.75	240	F	0	0	F	0	0	F	0	0	F	0	0
690	C	0.23	76	C	0.2	76	C	0.2	76	C	0.16	76	F	0	0	F	0	0	F	0	0	F	0	0
691	C	0.49	203	C	0.42	203	C	0.47	203	C	0.36	203	F	0	0	F	0	0	F	0	0	F	0	0

Continued on next page

Table 12 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
692	C	0.3	114	C	0.26	114	C	0.28	114	C	0.2	114	F	0	0	F	0	0	F	0	0	F	0	0
693	C	0.46	327	C	0.38	327	C	0.39	327	C	0.29	327	F	0	0	F	0	0	F	0	0	F	0	0
694	C	0.5	250	C	0.43	250	C	0.56	250	C	0.27	250	F	0	0	F	0	0	F	0	0	F	0	0
695	A	0.04	85	A	0.03	86	A	0.03	86	A	0.03	86	A	0.02	86	A	0.03	86	A	0.02	85	A	0.02	85
696	A	0.02	64	A	0.02	64	A	0.02	64	A	0.02	64	A	0.02	64	A	0.02	64	A	0.01	64	A	0.03	64
697	A	0.	32	A	0.	32	A	0.	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
698	C	0.03	102	C	0.02	102	C	0.02	102	B	0.18	396	B	0.14	396	B	0.17	396	B	0.22	396	B	0.12	396
699	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
700	A	0.01	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26
701	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.02	70	A	0.01	70	A	0.02	70
702	A	0.02	76	A	0.02	76	A	0.02	76	A	0.02	76	A	0.02	76	A	0.02	76	A	0.01	76	A	0.02	76
703	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
704	C	0.72	857	C	0.66	857	C	0.62	857	C	0.58	857	C	0.52	857	C	0.61	857	C	0.42	857	C	0.94	857
705	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.11 Independent_test_suites\WelzProblems

Table 13: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.02	14	A	0.	14	A	0.	14
2	C	0.	34	C	0.	34	C	0.	34	C	0.	34	C	0.	34	C	0.	34	C	0.	37	C	0.	37
3	B	0.06	370	B	0.05	360	B	0.05	360	B	0.04	360	B	0.05	360	B	0.05	360	B	0.03	360	B	0.03	360
4	B	0.06	172	B	0.05	172	B	0.05	172	B	0.05	172	B	0.05	172	B	0.05	172	B	0.04	172	B	0.06	172
5	B	0.02	115	B	0.02	115	B	0.02	115	B	0.02	115	B	0.02	115	B	0.02	115	B	0.01	115	B	0.02	115
6	B	0.03	125	B	0.03	125	B	0.03	125	B	0.03	125	B	0.03	125	B	0.03	125	B	0.03	125	B	0.05	125
7	A	0.02	45	A	0.02	46	A	0.02	46	A	0.02	46	A	0.03	46	A	0.01	46	A	0.02	46	A	0.02	46

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Table 13 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
8	A	0.	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
9	B	0.16	902	B	0.13	1072	B	0.12	1072	B	0.13	1072	B	0.11	1072	B	0.11	1072	B	0.07	1072	B	0.12	1068
10	B	0.03	1542	B	0.04	1712	B	0.04	1712	B	0.03	1712	B	0.03	1712	B	0.06	1712	B	0.02	1712	B	0.05	1708
11	B	0.02	278	B	0.02	278	B	0.02	278	B	0.02	278	B	0.02	278	B	0.02	278	B	0.01	278	B	0.02	278
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	C	0.05	22	C	0.05	22	C	0.04	22	C	0.04	22	C	0.03	22	C	0.03	22	C	0.03	22	C	0.05	22
16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16	A	0.	16	A	0.	16	A	0.02	16
17	B	0.04	120	B	0.03	120	B	0.09	124	B	0.04	124	B	0.01	124	B	0.03	124	B	0.04	124	B	0.02	124
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	A	0.02	48	A	0.02	48	A	0.02	48	A	0.02	48	A	0.02	48	A	0.02	48	A	0.01	48	A	0.02	48
22	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
23	A	0.02	51	A	0.02	51	A	0.02	51	A	0.02	51	A	0.01	51	A	0.02	51	A	0.01	51	A	0.05	51
24	B	0.06	455	B	0.06	455	B	0.05	454	B	0.05	454	B	0.05	455	B	0.05	455	B	0.04	455	B	0.05	454
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
28	C	0.01	25	C	0.01	25	C	0.	25	C	0.03	25	C	0.	25	C	0.02	25	C	0.01	25	C	0.	25
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
31	B	0.03	120	B	0.03	120	B	0.03	124	B	0.03	124	B	0.02	124	B	0.03	124	B	0.02	124	B	0.02	124
32	A	0.08	44	A	0.07	44	A	0.06	44	A	0.07	44	A	0.06	44	A	0.08	44	A	0.06	44	A	0.11	44
33	C	0.07	65	C	0.06	65	C	0.04	65	C	0.04	65	C	0.05	65	C	0.05	65	C	0.03	65	C	0.05	65
34	C	0.06	48	C	0.06	48	C	0.05	48	C	0.04	48	C	0.04	48	C	0.05	48	C	0.03	48	C	0.05	48
35	C	0.03	12	C	0.03	12	C	0.02	12	C	0.02	12	C	0.02	12	C	0.02	12	C	0.02	12	C	0.03	12

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Table 13 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
36	C	0.06	65	C	0.05	65	C	0.04	65	C	0.04	65	C	0.04	65	C	0.05	65	C	0.03	65	C	0.05	65
37	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
38	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
40	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
41	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
43	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
45	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
47	A	0.14	584	C	0.86	3218	C	0.77	3218	C	0.74	3218	C	0.72	3218	C	0.8	3218	C	0.36	3218	C	0.64	3207
48	A	0.09	719	C	0.79	4213	C	0.73	4213	C	0.71	4213	C	0.67	4213	C	0.75	4213	C	0.34	4213	C	0.66	4202
49	A	0.15	989	C	1.14	7553	C	1.07	7553	C	1.04	7553	C	0.97	7553	C	1.06	7553	C	0.57	7553	C	2.03	7770
50	B	0.91	21028	B	0.87	20011	B	0.87	20011	B	0.86	20011	B	0.82	20011	B	0.95	20011	B	0.62	20011	B	1.4	20011
51	B	6.88	86793	B	9.98	80921	B	9.64	80921	B	8.58	80921	B	8.94	80921	B	13.92	80921	B	13.12	80921	B	53.35	80921
52	C	0.17	1275	C	0.15	1275	C	0.16	1907	C	0.1	1907	C	0.11	1907	C	0.12	1907	C	0.1	1907	C	0.11	1907
53	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
56	C	0.07	69	C	0.07	69	C	0.06	69	C	0.05	69	C	0.05	69	C	0.05	69	C	0.04	69	C	0.05	69
57	C	0.07	49	C	0.06	49	C	0.05	49	C	0.05	49	C	0.04	49	C	0.05	49	C	0.03	49	C	0.05	49
58	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
59	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
60	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
61	A	0.04	52	A	0.04	52	A	0.04	52	A	0.04	52	A	0.04	52	A	0.03	52	A	0.03	52	A	0.03	52
62	A	0.04	75	A	0.04	75	A	0.03	73	A	0.03	73	A	0.03	73	A	0.03	73	A	0.02	73	A	0.03	73
63	B	0.02	100	B	0.02	100	B	0.02	100	B	0.02	100	B	0.02	100	B	0.02	100	B	0.02	100	B	0.03	100

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Table 13 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
64	C	0.04	365	C	0.04	365	C	0.04	365	C	0.03	365	C	0.04	365	C	0.05	365	C	0.02	415	C	0.05	415
65	C	0.1	1421	C	0.09	1421	C	0.07	1421	C	0.07	1421	C	0.06	1421	C	0.08	1421	C	0.05	1421	C	0.09	1421
66	B	0.13	456	B	0.14	456	B	0.12	456	B	0.13	452	B	0.11	456	B	0.16	456	B	0.18	452	B	0.11	456
67	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.12 Independent_test_suites\WesterProblems

Table 14: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.01	20	A	0.01	20	A	0.	20	A	0.	20	A	0.	20	A	0.02	20	A	0.	20	A	0.	20
2	A	0.	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
3	A	0.01	36	A	0.01	36	A	0.02	36	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.02	36
4	A	0.05	12	A	0.05	12	A	0.04	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
5	A	0.06	20	A	0.05	20	A	0.05	20	A	0.02	20	A	0.01	20	A	0.02	20	A	0.01	20	A	0.02	20
6	A	0.05	11	A	0.05	11	A	0.04	11	A	0.02	11	A	0.01	11	A	0.02	11	A	0.	11	A	0.	11
7	A	0.05	20	A	0.05	20	A	0.04	20	A	0.02	20	A	0.01	20	A	0.02	20	A	0.	20	A	0.	20
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.13 1_Algebraic_functions\1.1Binomialproducts\1.1.1Linear\1.1.1.2(a+bx)^m(c+dx)ⁿ

Table 15: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
2	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
3	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
4	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
5	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
7	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0.02 6	A 0. 6	A 0. 6
8	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
9	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0.02 6	A 0. 6	A 0. 6	A 0. 6
10	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
11	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0.02 6
12	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
13	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
14	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
15	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
16	A 0.01 23	A 0.01 23	A 0.01 23	A 0.01 23	A 0.01 23	A 0. 23	A 0. 23	A 0. 23
17	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0.02 25
18	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
19	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
20	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
21	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58
22	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57
23	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58
24	A 0.01 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0. 55	A 0. 55	A 0. 55
25	A 0.01 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0. 55	A 0. 55	A 0. 55
26	A 0.01 54	A 0.01 54	A 0.01 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0. 54	A 0.02 54
27	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58	A 0. 58	A 0. 58

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Table 15 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58	A 0. 58	A 0.02 58
29	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58	A 0. 58	A 0. 58
30	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0. 58	A 0.02 58	A 0. 58	A 0. 58
31	A 0. 80	A 0. 80	A 0. 80	A 0. 80	A 0. 80	A 0. 80	A 0. 80	A 0. 80
32	A 0.01 77	A 0.01 77	A 0.01 77	A 0.01 77	A 0.01 77	A 0. 77	A 0. 77	A 0. 77
33	A 0.01 77	A 0.01 77	A 0.01 77	A 0.01 77	A 0.01 77	A 0. 77	A 0. 77	A 0. 77
34	B 0.01 80	B 0.01 80	B 0.01 80	B 0.01 80	B 0.01 80	B 0.01 80	B 0. 80	B 0.02 80
35	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.02 80	A 0. 80	A 0. 80
36	A 0. 109	A 0.01 109	A 0.01 109	A 0. 109	A 0. 109	A 0. 109	A 0. 109	A 0. 109
37	A 0.01 110	A 0.01 110	A 0.01 110	A 0.01 110	A 0. 110	A 0.02 110	A 0. 110	A 0. 110
38	A 0.01 111	A 0.01 111	A 0.01 111	A 0.01 111	A 0.02 111	A 0.02 111	A 0. 111	A 0. 111
39	B 0.01 113	B 0.01 113	B 0.01 113	B 0.01 113	B 0.01 113	B 0. 113	B 0. 113	B 0.02 113
40	A 0.01 113	A 0.01 113	A 0.01 113	A 0.01 113	A 0.02 113	A 0. 113	A 0. 113	A 0.02 113
41	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52
42	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0.02 45	A 0. 45	A 0. 45
43	A 0.01 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0. 34	A 0.02 34	A 0. 34	A 0.02 34
44	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
45	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.01 30	A 0. 30	A 0. 30
46	A 0. 43	A 0. 43	A 0. 43	A 0.01 43	A 0. 43	A 0. 43	A 0. 43	A 0. 43
47	A 0.02 57	A 0.02 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0. 57	A 0.01 57	A 0. 57
48	A 0.02 68	A 0.02 68	A 0.01 68	A 0.01 68	A 0.01 68	A 0.02 68	A 0.01 68	A 0. 68
49	A 0.02 79	A 0.02 79	A 0.01 79	A 0.01 79	A 0.02 79	A 0.02 79	A 0.01 79	A 0.02 79
50	A 0.01 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0. 61	A 0.02 61
51	A 0.01 49	A 0.01 49	A 0.01 49	A 0.01 49	A 0.01 49	A 0.02 49	A 0. 49	A 0. 49
52	A 0.01 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0.02 42	A 0.01 42	A 0. 42
53	A 0.02 56	A 0.02 56	A 0.01 56	A 0.01 56	A 0.02 56	A 0.02 56	A 0.01 56	A 0. 56
54	A 0.02 110	A 0.02 110	A 0.01 110	A 0.01 110	A 0.02 110	A 0.02 110	A 0.01 110	A 0. 110
55	A 0.02 121	A 0.02 121	A 0.01 121	A 0.01 121	A 0.01 121	A 0. 121	A 0.01 121	A 0. 121

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	A 0.01 100	A 0.01 100	A 0.01 100	A 0.01 100	A 0. 100	A 0. 100	A 0. 100	A 0. 100
57	B 0.01 72	B 0.01 72	B 0.01 72	B 0.01 72	B 0.01 72	B 0. 72	B 0. 72	B 0. 72
58	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27
59	A 0.02 108	A 0.02 108	A 0.02 108	A 0.01 108	A 0.02 108	A 0.02 108	A 0.01 108	A 0.02 108
60	B 0.01 102	B 0.01 102	B 0.01 102	B 0.01 102	B 0.01 102	B 0. 102	B 0. 102	B 0. 102
61	A 0.03 189	A 0.02 189	A 0.02 189	A 0.02 189	A 0.02 189	A 0.02 189	A 0.01 189	A 0.02 189
62	B 0.01 91	B 0.01 91	B 0.01 91	B 0.01 91	B 0.02 91	B 0. 91	B 0. 91	B 0. 91
63	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0. 58	A 0. 58	A 0. 58
64	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.02 25	A 0. 25	A 0. 25
65	A 0.03 135	A 0.02 135	A 0.02 135	A 0.01 135	A 0.02 135	A 0.02 135	A 0.01 135	A 0. 135
66	A 0.01 14	A 0.02 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14
67	A 0.01 29	A 0.02 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0. 29	A 0.01 29	A 0.02 29
68	A 0.01 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0. 28	A 0. 28	A 0. 28
69	A 0.01 43	A 0.02 43	A 0.01 43	A 0.01 43	A 0.01 43	A 0. 43	A 0. 43	A 0.02 43
70	A 0.01 52	A 0.02 52	A 0.01 52	A 0.01 52	A 0.01 52	A 0.02 52	A 0.01 52	A 0. 52
71	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
72	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18
73	A 0.01 15	A 0.02 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15
74	A 0.01 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0. 32	A 0.01 32	A 0. 32	A 0.02 32
75	A 0.01 28	A 0.01 28	A 0. 28	A 0.01 28	A 0. 28	A 0.01 28	A 0. 28	A 0.02 28
76	A 0.01 37	A 0.01 60	A 0. 60	A 0.01 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60
77	A 0.02 65	B 0.02 152	B 0.02 152	B 0.01 152	B 0.01 152	B 0.01 152	B 0.01 152	B 0.02 152
78	A 0. 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0.01 21	A 0. 21	A 0. 21
79	A 0.02 61	A 0.02 81	A 0.01 81	A 0.01 81	A 0.01 81	A 0.01 81	A 0. 81	A 0.02 81
80	A 0.01 43	A 0.01 43	A 0.01 43	A 0.01 43	A 0.01 43	A 0.02 43	A 0.01 43	A 0.02 43
81	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
82	A 0.02 84	A 0.02 104	A 0.02 104	A 0.01 104	A 0.01 104	A 0.01 104	A 0.01 104	A 0. 104
83	A 0.02 87	B 0.02 466	B 0.01 466	B 0.01 466	B 0.02 466	B 0. 466	B 0.01 466	B 0.02 466

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
84	A 0.01 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0.01 32	A 0. 32
85	A 0.02 35	A 0.02 35	A 0.01 35	A 0.01 35	A 0. 35	A 0.02 35	A 0.01 35	A 0. 35
86	A 0.01 43	A 0.01 43	A 0.01 43	A 0.01 43	A 0. 43	A 0. 43	A 0. 43	A 0. 43
87	A 0. 40	A 0. 40	A 0. 40	A 0.01 40	A 0. 40	A 0.02 40	A 0. 40	A 0.02 40
88	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
89	A 0.01 54	A 0.01 54	A 0.01 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0. 54	A 0.02 54
90	A 0.01 43	A 0.01 43	A 0.01 43	A 0.01 43	A 0.01 43	A 0.02 43	A 0. 43	A 0.02 43
91	A 0.01 32	A 0.01 32	A 0.01 32	A 0. 32	A 0.01 32	A 0.01 32	A 0. 32	A 0.02 32
92	A 0.01 35	A 0.02 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0.01 35	A 0.02 35
93	A 0.02 92	A 0.02 93	A 0.02 93	A 0.02 93	A 0.02 93	A 0.02 93	A 0.01 93	A 0.02 93
94	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13
95	A 0.01 34	A 0.01 34	A 0.01 34	A 0. 34	A 0. 34	A 0.02 34	A 0.01 34	A 0. 34
96	A 0.02 128	A 0.02 128	A 0.02 128	A 0.01 128	A 0.02 128	A 0.02 128	A 0.01 128	A 0. 128
97	A 0.01 43	A 0.01 43	A 0. 43	A 0.01 43	A 0. 43	A 0. 43	A 0. 43	A 0.02 43
98	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13
99	A 0.01 76	A 0.01 76	A 0.01 76	A 0.01 76	A 0. 76	A 0. 76	A 0. 76	A 0.02 76
100	A 0. 20	A 0.01 20	A 0. 20	A 0. 20	A 0.02 20	A 0. 20	A 0. 20	A 0.02 20
101	A 0.02 91	A 0.02 91	A 0.01 91	A 0.01 91	A 0.01 91	A 0.02 91	A 0.01 91	A 0. 91
102	A 0.01 96	A 0.01 96	A 0.01 96	A 0.01 96	A 0.01 96	A 0. 96	A 0. 96	A 0.02 96
103	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
104	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14
105	A 0.01 87	A 0.01 87	A 0.01 87	A 0.01 87	A 0.01 87	A 0.02 87	A 0. 87	A 0. 87
106	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.02 25	A 0.01 25	A 0. 25
107	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36
108	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.02 36	A 0. 36	A 0.02 36
109	A 0.02 48	A 0.03 48	A 0.02 48	A 0.02 48	A 0.02 48	A 0.01 48	A 0.01 48	A 0.02 48
110	A 0.02 66	A 0.03 64	A 0.02 64	A 0.02 64	A 0.03 64	A 0.02 64	A 0.01 64	A 0.02 64
111	A 0.02 79	A 0.03 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.03 79	A 0.01 79	A 0. 79

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
112	A 0.02 49	A 0.02 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.01 79	A 0.01 79	A 0.02 79
113	A 0.01 39	A 0.02 39	A 0.01 39	A 0.01 39	A 0.01 39	A 0. 39	A 0.01 39	A 0.02 39
114	A 0.02 54	B 0.02 114	B 0.01 114	B 0.02 114	B 0.01 114	B 0.02 114	B 0.01 114	B 0.02 114
115	A 0.01 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0.01 63	A 0.02 63	A 0.01 63	A 0.02 63
116	A 0.04 66	A 0.04 66	B 0.04 88	B 0.04 88	A 0.03 50	A 0.03 50	A 0.02 50	A 0.02 50
117	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0. 58	A 0.02 58	A 0. 58	A 0.02 58
118	B 0.01 63	B 0.01 63	B 0.01 63	B 0.01 63	B 0.01 63	B 0.02 63	B 0. 63	B 0.02 63
119	B 0.04 90	B 0.04 90	B 0.03 70	B 0.03 70	A 0.02 48	A 0.03 48	A 0.02 48	A 0.03 48
120	A 0.01 138	A 0.01 138	A 0.01 138	A 0.01 138	A 0.01 138	A 0. 138	A 0. 138	A 0.02 138
121	A 0.01 78	A 0.01 78	A 0. 78	A 0. 78	A 0. 78	A 0. 78	A 0. 78	A 0. 78
122	A 0.01 87	A 0.01 87	A 0. 87	A 0. 87	A 0. 87	A 0. 87	A 0. 87	A 0. 87
123	A 0.03 88	A 0.03 88	A 0.03 110	A 0.03 110	A 0.03 72	A 0.03 72	A 0.02 72	A 0.02 72
124	A 0.01 138	A 0.01 138	A 0.01 138	A 0. 138	A 0. 138	A 0. 138	A 0.01 138	A 0. 138
125	A 0.04 81	A 0.04 81	A 0.03 81	A 0.03 81	A 0.03 61	A 0.03 61	A 0.02 61	A 0.03 61
126	A 0.01 107	A 0.01 107	A 0.01 107	A 0.01 107	A 0.01 107	A 0.02 107	A 0. 107	A 0.02 107
127	A 0.03 106	A 0.03 106	A 0.02 86	A 0.02 86	A 0.02 64	A 0.03 64	A 0.02 64	A 0.03 64
128	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24	A 0.01 24	A 0. 24	A 0. 24	A 0. 24
129	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0. 35	A 0.02 35
130	B 0.06 160	B 0.06 160	B 0.06 182	B 0.07 182	A 0.05 143	A 0.09 143	A 0.17 143	A 0.06 143
131	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
132	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0.02 36
133	A 0.01 93	A 0.01 93	A 0.01 93	A 0. 93	A 0. 93	A 0.02 93	A 0. 93	A 0.02 93
134	A 0.07 48	A 0.06 48	A 0.04 48	A 0.04 48	A 0.03 48	A 0.05 48	A 0.03 48	A 0.05 48
135	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18	A 0. 18	A 0. 18	A 0.02 18
136	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0.02 35	A 0. 35	A 0. 35
137	A 0.06 55	A 0.05 55	A 0.04 55	A 0.04 55	A 0.04 55	A 0.05 55	A 0.03 55	A 0.03 55
138	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13
139	A 0.01 100	A 0.01 100	A 0.01 100	A 0.01 100	A 0. 100	A 0.01 100	A 0.01 100	A 0. 100

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
140	B 0.04 138	B 0.05 138	A 0.04 118	A 0.04 118	A 0.03 94	A 0.05 94	A 0.03 94	A 0.02 94
141	B 0.05 75	B 0.06 75	B 0.04 75	B 0.04 75	B 0.04 75	B 0.05 75	B 0.03 75	B 0.05 75
142	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14
143	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.02 25	A 0. 25	A 0. 25
144	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
145	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0.02 36
146	A 0.01 121	A 0.01 121	A 0.01 121	A 0.01 121	A 0.02 121	A 0.01 121	A 0.01 121	A 0.02 121
147	A 0.01 95	A 0.01 95	A 0.01 95	A 0. 95	A 0.01 95	A 0. 95	A 0.01 95	A 0.02 95
148	A 0.01 104	A 0.02 104	A 0.01 104	A 0.01 104	A 0.02 104	A 0. 104	A 0.01 104	A 0.02 104
149	A 0.02 112	A 0.02 112	A 0.01 112	A 0.01 112	A 0.02 112	A 0.02 112	A 0.01 112	A 0.02 112
150	A 0.02 124	A 0.02 128	A 0.02 128	A 0.01 128	A 0.01 128	A 0.01 128	A 0.01 128	A 0. 128
151	A 0.01 136	A 0.02 136	A 0.01 136	A 0.01 136	A 0.01 136	A 0. 136	A 0.01 136	A 0. 136
152	A 0.01 62	A 0.01 62	A 0.01 62	A 0.01 62	A 0. 62	A 0.02 62	A 0. 62	A 0.02 62
153	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
154	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
155	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
156	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
157	C 0.04 30	C 0.04 30	C 0.03 30	C 0.03 30	C 0.03 30	C 0.03 30	C 0.02 30	C 0.02 30
158	C 0.05 44	C 0.06 44	C 0.05 44	C 0.04 44	C 0.03 44	C 0.05 44	C 0.03 44	C 0.05 44
159	A 0. 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0.02 29	A 0. 29	A 0.02 29
160	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
161	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
162	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
163	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
164	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
165	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
166	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.01 16	A 0. 16	A 0. 16
167	B 0. 72	B 0. 72	B 0. 72	B 0. 72	B 0. 72	B 0. 72	B 0. 72	B 0. 72

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
168	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
169	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
170	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
171	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0.02 35	A 0. 35	A 0. 35
172	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35
173	A 0. 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37	A 0.01 37	A 0. 37	A 0. 37
174	A 0.01 53	A 0.01 53	A 0.01 53	A 0.01 53	A 0.01 53	A 0. 53	A 0. 53	A 0. 53
175	A 0.01 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0. 40
176	A 0.02 76	A 0.02 76	A 0.01 76	A 0.01 76	A 0.01 76	A 0.02 76	A 0.01 76	A 0.02 76
177	A 0. 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0.02 15
178	A 0.01 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
179	A 0.01 57	A 0.01 57	A 0. 57	A 0.01 57	A 0. 57	A 0.01 57	A 0. 57	A 0. 57
180	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
181	B 0.01 113	B 0.01 113	B 0.01 113	B 0. 113	B 0. 113	B 0. 113	B 0. 113	B 0. 113
182	A 0.01 85	A 0.01 85	A 0.01 85	A 0. 85	A 0. 85	A 0. 85	A 0. 85	A 0. 85
183	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
184	A 0. 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30	A 0. 30	A 0.02 30
185	A 0. 35	A 0.01 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35
186	A 0.01 71	A 0.01 71	A 0. 71	A 0. 71	A 0.02 71	A 0.01 71	A 0. 71	A 0. 71
187	A 0.04 77	A 0.04 77	A 0.03 55	A 0.03 55	A 0.02 31	A 0.03 31	A 0.02 31	A 0.03 31
188	B 0.04 71	B 0.03 71	A 0.02 49	A 0.02 49	A 0.02 25	A 0.02 25	A 0.02 25	A 0.03 25
189	A 0.01 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35
190	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0. 40	A 0. 40	A 0. 40	A 0.02 40
191	B 0.03 73	B 0.03 73	A 0.02 51	A 0.02 51	A 0.02 31	A 0.03 31	A 0.02 31	A 0.03 31
192	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
193	A 0. 23	A 0.01 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23	A 0. 23	A 0. 23
194	A 0. 45	A 0.01 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
195	B 0.02 193	B 0.01 193	B 0.01 193	B 0.01 193	B 0. 193	B 0. 193	B 0.01 193	B 0.02 193

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Table 15 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
196	A 0.01 98	A 0.01 98	A 0.01 98	A 0. 98	A 0. 98	A 0.01 98	A 0. 98	A 0.02 98
197	B 0.02 127	B 0.01 127	B 0.01 127	B 0.01 127	B 0.02 127	B 0. 127	B 0.01 127	B 0. 127
198	A 0.01 67	A 0.01 67	A 0.01 67	A 0. 67	A 0. 67	A 0.02 67	A 0. 67	A 0.02 67
199	B 0.01 37	B 0.01 37	B 0.01 37	B 0.01 37	B 0.02 37	B 0.02 37	B 0. 37	B 0. 37
200	A 0. 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0.02 19
201	A 0. 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
202	C 0.18 113	C 0.15 113	C 0.13 113	C 0.12 113	C 0.11 71	C 0.12 71	C 0.09 71	C 0.12 71
203	A 0.07 31	A 0.07 31	A 0.06 31	A 0.06 31	A 0.06 31	A 0.06 31	A 0.04 31	A 0.08 31
204	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
205	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
206	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
207	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
208	C 0.13 91	C 0.1 91	C 0.08 91	C 0.08 91	C 0.07 49	C 0.09 49	C 0.06 49	C 0.09 49
209	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
210	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
211	C 0.09 105	C 0.1 105	C 0.09 105	C 0.09 105	C 0.08 63	C 0.08 63	C 0.06 63	C 0.09 63
212	A 0.01 103	A 0.01 103	A 0.01 103	A 0.01 103	A 0.02 103	A 0.02 103	A 0.01 103	A 0.02 103
213	B 0. 73	B 0. 73	B 0. 73	B 0. 73	B 0. 73	B 0. 73	B 0. 73	B 0. 73
214	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
215	A 0.01 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0. 71	A 0.02 71	A 0. 71	A 0. 71
216	B 0. 229	B 0. 229	B 0. 229	B 0. 229	B 0. 229	B 0. 229	B 0. 229	B 0. 229
217	A 0. 133	A 0.01 133	A 0.01 133	A 0.01 133	A 0. 133	A 0. 133	A 0. 133	A 0. 133
218	B 0.01 121	B 0.01 121	B 0.01 121	B 0.01 121	B 0.01 121	B 0. 121	B 0. 121	B 0. 121
219	A 0.01 122	A 0.01 122	A 0.01 122	A 0.01 122	A 0.01 122	A 0. 122	A 0. 122	A 0. 122
220	B 0. 817	B 0. 817	B 0. 817	B 0. 817	B 0. 817	B 0. 817	B 0. 817	B 0. 817
221	B 0. 493	B 0. 493	B 0. 493	B 0. 493	B 0. 493	B 0. 493	B 0. 493	B 0. 493
222	B 0.01 539	B 0.01 539	B 0.01 539	B 0.01 539	B 0.01 539	B 0. 539	B 0. 539	B 0.02 539
223	B 0.02 571	B 0.02 571	B 0.01 571	B 0.01 571	B 0.01 571	B 0.01 571	B 0.01 571	B 0. 571

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Table 15 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
224	B 0.01 464	B 0.01 464	B 0.01 464	B 0.01 464	B 0. 464	B 0. 464	B 0.01 464	B 0.02 464
225	B 0.01 464	B 0.01 464	B 0.01 464	B 0.01 464	B 0.01 464	B 0.01 464	B 0.01 464	B 0. 464
226	B 0. 1441	B 0.01 1441	B 0. 1441	B 0. 1441	B 0. 1441	B 0. 1441	B 0. 1441	B 0. 1441
227	B 0.03 1222	B 0.03 1222	B 0.02 1222	B 0.02 1222	B 0.01 1222	B 0.03 1222	B 0.01 1222	B 0.02 1222
228	A 0. 133	A 0.01 133	A 0. 133	A 0.01 133	A 0. 133	A 0. 133	A 0. 133	A 0. 133
229	A 0.02 57	A 0.02 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0.02 57	A 0.01 57	A 0. 57
230	A 0.01 81	A 0.02 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0. 81	A 0.01 81	A 0. 81
231	A 0.02 58	A 0.02 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58	A 0. 58	A 0. 58
232	B 0.02 845	B 0.02 845	B 0.02 845	B 0.02 845	B 0.01 845	B 0.02 845	B 0.01 845	B 0.02 845
233	A 0.01 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0.02 71	A 0. 71	A 0. 71
234	A 0.04 223	A 0.02 223	A 0.02 223	A 0.02 223	A 0.02 223	A 0.02 223	A 0.01 223	A 0.02 223
235	A 0.02 64	B 0.02 208	B 0.02 208	B 0.02 208	B 0.02 208	B 0.03 208	B 0.01 208	B 0.02 208
236	A 0.02 170	B 0.02 434	B 0.02 434	B 0.02 434	B 0.02 434	B 0.02 434	B 0.01 434	B 0.02 434
237	A 0.03 337	B 0.02 642	B 0.02 642	B 0.02 642	B 0.02 642	B 0.02 642	B 0.01 642	B 0.02 642
238	B 0.01 273	B 0.01 273	B 0.01 273	B 0.01 273	B 0.01 273	B 0. 273	B 0.01 273	B 0.02 273
239	A 0.02 222	B 0.02 1047	B 0.02 1047	B 0.02 1047	B 0.02 1047	B 0.02 1047	B 0.01 1047	B 0.02 1047
240	A 0.01 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0. 116
241	A 0.03 305	B 0.03 2035	B 0.02 2035	B 0.02 2035	B 0.02 2035	B 0.02 2035	B 0.01 2035	B 0.02 2035
242	A 0.02 40	A 0.02 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0. 42	A 0. 42
243	B 0.01 273	B 0.01 273	B 0.01 273	B 0.01 273	B 0.01 273	B 0. 273	B 0.01 273	B 0.02 273
244	A 0.01 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0.02 116	A 0.01 116	A 0.01 116	A 0.02 116
245	A 0.03 101	A 0.03 101	A 0.02 101	A 0.02 101	A 0.02 101	A 0.03 101	A 0.01 101	A 0.02 101
246	B 0.01 273	B 0.01 273	B 0.01 273	B 0.01 273	B 0. 273	B 0.02 273	B 0.01 273	B 0.02 273
247	A 0.01 62	A 0.01 62	A 0.01 62	A 0.01 62	A 0.02 62	A 0. 62	A 0.01 62	A 0.02 62
248	A 0.01 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
249	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23	A 0. 23	A 0.02 23
250	A 0. 23	A 0.01 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
251	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
252	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
253	A	0.01	160	A	0.01	160	A	0.01	160	A	0.01	160	A	0.01	160	A	0.01	160	A	0.01	160	A	0.	160
254	B	0.01	305	B	0.01	305	B	0.	305	B	0.01	305	B	0.	305	B	0.01	305	B	0.	305	B	0.	305
255	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.	54
256	A	0.02	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.02	171
257	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
258	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
259	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
260	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.01	27	A	0.01	27	A	0.	27
261	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.02	54
262	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
263	A	0.02	170	A	0.02	170	A	0.01	170	A	0.01	170	A	0.01	170	A	0.02	170	A	0.01	170	A	0.	170
264	B	0.01	66	B	0.01	66	B	0.01	66	B	0.01	66	B	0.01	66	B	0.	66	B	0.01	66	B	0.02	66
265	B	0.01	60	B	0.01	60	B	0.01	60	B	0.01	60	B	0.01	60	B	0.01	60	B	0.01	60	B	0.	60
266	B	0.01	64	B	0.01	64	B	0.01	64	B	0.01	64	B	0.01	64	B	0.01	64	B	0.	64	B	0.	64
267	B	0.02	66	B	0.01	66	B	0.01	66	B	0.01	66	B	0.01	66	B	0.02	66	B	0.01	66	B	0.	66
268	B	0.01	66	B	0.01	66	B	0.01	66	B	0.01	66	B	0.01	66	B	0.	66	B	0.	66	B	0.02	66
269	B	0.01	66	B	0.01	66	B	0.01	66	B	0.01	66	B	0.02	66	B	0.02	66	B	0.	66	B	0.02	66
270	B	0.01	66	B	0.01	66	B	0.01	66	B	0.	66	B	0.	66	B	0.02	66	B	0.01	66	B	0.	66
271	B	0.01	66	B	0.01	66	B	0.01	66	B	0.01	66	B	0.	66	B	0.	66	B	0.01	66	B	0.02	66
272	B	0.04	118	B	0.03	118	B	0.02	118	B	0.02	118	B	0.02	118	B	0.02	118	B	0.02	118	B	0.03	118
273	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
274	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
275	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
276	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
277	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
278	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
279	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 15 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
280	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
281	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
282	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
283	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
284	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
285	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
286	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
287	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
288	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
289	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
290	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
291	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
292	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
293	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
294	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
295	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
296	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
297	A	0.02	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.02	171
298	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
299	A	0.02	171	A	0.02	171	A	0.01	171	A	0.01	171	A	0.02	171	A	0.01	171	A	0.01	171	A	0.02	171
300	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
301	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
302	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
303	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
304	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
305	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
306	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
307	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 15 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
308	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.02	27	A	0.	27	A	0.	27
309	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
310	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.	54	A	0.01	54	A	0.02	54
311	A	0.02	171	A	0.02	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.02	171	A	0.01	171	A	0.02	171
312	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
313	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
314	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
315	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
316	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
317	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.	54	A	0.	54	A	0.01	54	A	0.	54
318	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.02	27	A	0.	27	A	0.	27	A	0.	27
319	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
320	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
321	A	0.01	105	A	0.01	105	A	0.01	105	A	0.01	105	A	0.01	105	A	0.01	105	A	0.01	105	A	0.	105
322	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
323	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
324	A	0.01	46	A	0.01	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46
325	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
326	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
327	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
328	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
329	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
330	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
331	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.02	21
332	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
333	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
334	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16

2.14 1_Algebraic_functions\1.1Binomialproducts\1.1.1Linear\1.1.1.3(a+bx)^m(c+dx)^n(e+fx)^p

Table 16: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48
2	A	0.	44	A	0.	44	A	0.	44	A	0.	44	A	0.	44	A	0.	44	A	0.	44	A	0.02	44
3	B	0.01	38	B	0.01	38	B	0.01	38	B	0.01	38	B	0.01	38	B	0.	38	B	0.	38	B	0.	38
4	A	0.01	47	A	0.01	47	A	0.01	47	A	0.01	47	A	0.01	47	A	0.	47	A	0.	47	A	0.02	47
5	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.02	39	A	0.	39	A	0.	39
6	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.	40	A	0.	40
7	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76
8	A	0.01	72	A	0.01	72	A	0.01	72	A	0.01	72	A	0.01	72	A	0.	72	A	0.	72	A	0.	72
9	A	0.01	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.02	74	A	0.	74	A	0.	74
10	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.02	76
11	A	0.01	61	A	0.01	61	A	0.01	61	A	0.01	61	A	0.	61	A	0.	61	A	0.	61	A	0.	61
12	B	0.01	83	B	0.01	83	B	0.01	83	B	0.01	83	B	0.	83	B	0.	83	B	0.	83	B	0.	83
13	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.	23	A	0.	23	A	0.	23	A	0.02	23
14	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
15	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.	46	A	0.	46	A	0.	46
16	A	0.01	48	A	0.01	48	A	0.01	48	A	0.01	48	A	0.01	48	A	0.02	48	A	0.	48	A	0.	48
17	A	0.01	48	A	0.01	48	A	0.01	48	A	0.01	48	A	0.01	48	A	0.02	48	A	0.	48	A	0.	48
18	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76
19	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76
20	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.	66	A	0.	66
21	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.	66	A	0.	66
22	A	0.01	120	A	0.01	120	A	0.01	120	A	0.01	120	A	0.	120	A	0.02	120	A	0.	120	A	0.	120
23	A	0.01	104	A	0.01	104	A	0.01	104	A	0.01	104	A	0.02	104	A	0.02	104	A	0.	104	A	0.02	104
24	A	0.01	239	A	0.01	239	A	0.01	239	A	0.01	239	A	0.02	239	A	0.	239	A	0.01	239	A	0.02	239
25	A	0.01	240	A	0.01	240	A	0.01	240	A	0.01	240	A	0.	240	A	0.02	240	A	0.	240	A	0.02	240

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Table 16 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
26	A	0.01	240	A	0.02	240	A	0.01	240	A	0.01	240	A	0.02	240	A	0.02	240	A	0.01	240	A	0.02	240
27	A	0.02	240	A	0.02	240	A	0.01	240	A	0.01	240	A	0.02	240	A	0.01	240	A	0.	240	A	0.02	240
28	B	0.01	208	B	0.01	208	B	0.01	208	B	0.01	208	B	0.	208	B	0.02	208	B	0.	208	B	0.	208
29	A	0.01	208	A	0.01	208	A	0.01	208	A	0.01	208	A	0.02	208	A	0.02	208	A	0.	208	A	0.02	208
30	B	0.	388	B	0.01	388	B	0.	388	B	0.	388	B	0.	388	B	0.	388	B	0.	388	B	0.	388
31	B	0.	37	B	0.	37	B	0.	37	B	0.	37	B	0.	37	B	0.	37	B	0.	37	B	0.	37
32	A	0.01	100	A	0.01	100	A	0.01	100	A	0.01	100	A	0.	100	A	0.	100	A	0.	100	A	0.	100
33	A	0.01	125	A	0.02	125	A	0.01	125	A	0.01	125	A	0.02	125	A	0.01	125	A	0.01	125	A	0.	125
34	A	0.01	109	A	0.01	109	A	0.01	109	A	0.01	109	A	0.02	109	A	0.01	109	A	0.	109	A	0.	109
35	A	0.02	78	A	0.02	78	A	0.02	78	A	0.01	78	A	0.	78	A	0.02	78	A	0.01	78	A	0.02	78
36	A	0.02	134	A	0.02	134	A	0.01	134	A	0.01	134	A	0.02	134	A	0.	134	A	0.01	134	A	0.02	134
37	A	0.01	94	A	0.01	94	A	0.01	94	A	0.01	94	A	0.	94	A	0.01	94	A	0.	94	A	0.	94
38	A	0.01	51	A	0.02	51	A	0.01	51	A	0.01	51	A	0.02	51	A	0.	51	A	0.	51	A	0.	51
39	A	0.01	193	A	0.02	193	A	0.01	193	A	0.01	193	A	0.02	193	A	0.02	193	A	0.01	193	A	0.02	193
40	A	0.	133	A	0.	133	A	0.	133	A	0.	133	A	0.	133	A	0.	133	A	0.	133	A	0.	133
41	A	0.01	103	A	0.02	103	A	0.01	103	A	0.01	103	A	0.02	103	A	0.01	103	A	0.	103	A	0.	103
42	A	0.01	132	A	0.02	132	A	0.01	132	A	0.01	132	A	0.02	132	A	0.02	132	A	0.	132	A	0.02	132
43	A	0.01	175	A	0.02	175	A	0.02	175	A	0.02	175	A	0.02	175	A	0.02	175	A	0.01	175	A	0.02	175
44	A	0.01	116	A	0.02	116	A	0.02	116	A	0.01	116	A	0.	116	A	0.02	116	A	0.01	116	A	0.	116
45	A	0.01	45	A	0.01	45	A	0.01	45	A	0.01	45	A	0.	45	A	0.02	45	A	0.01	45	A	0.02	45
46	A	0.01	97	A	0.02	97	A	0.01	97	A	0.01	97	A	0.02	97	A	0.01	97	A	0.	97	A	0.	97
47	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58
48	A	0.01	164	A	0.02	164	A	0.01	164	A	0.01	164	A	0.02	164	A	0.02	164	A	0.	164	A	0.	164
49	A	0.01	81	A	0.02	81	A	0.01	81	A	0.01	81	A	0.	81	A	0.02	81	A	0.	81	A	0.	81
50	B	0.01	205	B	0.01	205	B	0.01	205	B	0.01	205	B	0.	205	B	0.02	205	B	0.	205	B	0.	205
51	A	0.02	141	A	0.02	141	A	0.01	141	A	0.01	141	A	0.	141	A	0.02	141	A	0.01	141	A	0.02	141
52	A	0.03	242	A	0.02	242	A	0.02	242	A	0.02	242	A	0.01	242	A	0.02	242	A	0.01	242	A	0.02	242
53	A	0.02	280	A	0.02	280	A	0.01	280	A	0.01	280	A	0.02	280	A	0.02	280	A	0.01	280	A	0.	280

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
54	A 0.02 238	A 0.02 238	A 0.02 238	A 0.01 238	A 0.02 238	A 0.01 238	A 0.01 238	A 0. 238
55	A 0.03 347	A 0.03 347	A 0.02 347	A 0.02 347	A 0.01 347	A 0.02 347	A 0.01 347	A 0.02 347
56	A 0.02 315	A 0.02 315	A 0.02 315	A 0.02 315	A 0.02 315	A 0.02 315	A 0.01 315	A 0.02 315
57	A 0.01 76	A 0.01 76	A 0.01 76	A 0.01 76	A 0. 76	A 0. 76	A 0.01 76	A 0. 76
58	A 0.01 150	A 0.02 150	A 0.01 150	A 0.01 150	A 0.02 150	A 0.02 150	A 0.01 150	A 0. 150
59	A 0.01 53	A 0.01 53	A 0.01 53	A 0.01 53	A 0. 53	A 0. 53	A 0.01 53	A 0.02 53
60	A 0.02 102	A 0.02 102	A 0.02 102	A 0.01 102	A 0.02 102	A 0.01 102	A 0.01 102	A 0.02 102
61	A 0.02 87	A 0.03 87	A 0.02 87	A 0.02 87	A 0.03 87	A 0.01 87	A 0.01 87	A 0. 87
62	A 0.03 139	A 0.03 139	A 0.02 139	A 0.02 139	A 0.03 139	A 0.03 139	A 0.01 139	A 0.02 139
63	A 0.03 178	A 0.02 178	A 0.02 178	A 0.02 178	A 0.02 178	A 0.02 178	A 0.01 178	A 0.02 178
64	A 0.02 152	A 0.02 152	A 0.02 152	A 0.02 152	A 0.02 152	A 0.03 152	A 0.01 152	A 0. 152
65	A 0.02 125	A 0.03 122	A 0.02 122	A 0.02 122	A 0.02 122	A 0.02 122	A 0.01 122	A 0.02 122
66	A 0.03 178	A 0.03 178	A 0.02 178	A 0.02 178	A 0.02 178	A 0.02 178	A 0.01 178	A 0.03 178
67	B 0.01 246	B 0.01 246	B 0.01 246	B 0.01 246	B 0.02 246	B 0. 246	B 0. 246	B 0. 246
68	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	B 0.01 2058	B 0.01 2058	B 0.01 2058	B 0.01 2058	B 0. 2058	B 0.02 2058	B 0.01 2058	B 0.03 2058
71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	B 0.01 422	B 0.01 422	B 0.01 422	B 0.01 422	B 0.02 422	B 0.02 422	B 0.01 422	B 0.02 422
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
76	A 0.01 175	A 0.01 175	A 0.01 175	A 0.01 175	A 0.02 175	A 0. 175	A 0.01 175	A 0. 175
77	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47	A 0. 47	A 0.02 47	A 0. 47	A 0. 47
78	A 0.02 96	B 0.02 230	B 0.02 230	B 0.02 230	B 0. 230	B 0.02 230	B 0.01 230	B 0.02 230
79	A 0.03 129	B 0.02 418	B 0.02 418	B 0.02 418	B 0.02 418	B 0.02 418	B 0.01 418	B 0.02 418
80	A 0.01 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0. 72	A 0.02 72	A 0.01 72	A 0.02 72
81	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47	A 0. 47	A 0.02 47	A 0. 47	A 0. 47

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Table 16 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
82	A	0.01	26	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.02	26	A	0.	26	A	0.	26
83	A	0.01	95	A	0.01	95	A	0.01	95	A	0.01	95	A	0.	95	A	0.01	95	A	0.01	95	A	0.02	95
84	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.	70	A	0.02	70	A	0.01	70	A	0.	70
85	A	0.02	59	A	0.02	59	A	0.01	59	A	0.01	59	A	0.02	59	A	0.02	59	A	0.01	59	A	0.	59
86	A	0.03	122	A	0.03	186	A	0.02	186	A	0.02	186	A	0.02	186	A	0.03	186	A	0.01	186	A	0.02	186
87	A	0.03	168	B	0.03	406	B	0.03	406	B	0.02	406	B	0.02	406	B	0.02	406	B	0.01	406	B	0.02	406
88	A	0.02	63	A	0.02	81	A	0.02	81	A	0.02	81	A	0.02	81	A	0.02	81	A	0.01	81	A	0.02	81
89	B	0.02	384	B	0.02	384	B	0.02	384	B	0.02	384	B	0.02	384	B	0.02	384	B	0.01	384	B	0.02	384
90	B	0.03	249	B	0.03	249	B	0.03	249	B	0.02	249	B	0.01	249	B	0.01	249	B	0.01	249	B	0.02	249
91	A	0.03	237	B	0.03	410	B	0.02	410	B	0.02	410	B	0.02	410	B	0.03	410	B	0.01	410	B	0.02	410
92	B	0.03	403	B	0.03	623	B	0.02	623	B	0.02	623	B	0.01	623	B	0.03	623	B	0.01	623	B	0.02	623
93	A	0.02	176	A	0.02	176	A	0.02	176	A	0.02	176	A	0.02	176	A	0.03	176	A	0.01	176	A	0.03	176
94	A	0.01	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.02	31	A	0.	31	A	0.	31	A	0.02	31
95	A	0.01	101	A	0.01	101	A	0.01	101	A	0.01	101	A	0.02	101	A	0.01	101	A	0.01	101	A	0.02	101
96	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.02	77	A	0.01	77	A	0.01	77	A	0.	77
97	A	0.03	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.03	260
98	A	0.01	125	A	0.01	125	A	0.01	125	A	0.01	125	A	0.02	125	A	0.02	125	A	0.01	125	A	0.02	125
99	B	0.03	101	B	0.03	101	B	0.02	101	B	0.02	101	B	0.02	101	B	0.03	101	B	0.02	101	B	0.02	101
100	B	0.04	330	B	0.04	330	B	0.03	330	B	0.03	330	B	0.03	330	B	0.03	330	B	0.02	330	B	0.03	330
101	A	0.01	149	A	0.01	149	A	0.01	149	A	0.01	149	A	0.02	149	A	0.02	149	A	0.01	149	A	0.02	149
102	B	0.04	406	B	0.04	406	B	0.03	406	B	0.03	406	B	0.02	406	B	0.03	406	B	0.02	406	B	0.03	406
103	B	0.03	942	B	0.03	942	B	0.02	942	B	0.02	942	B	0.03	942	B	0.03	942	B	0.02	942	B	0.03	942
104	B	0.01	460	B	0.01	460	B	0.01	460	B	0.01	460	B	0.	460	B	0.01	460	B	0.01	460	B	0.02	460
105	B	0.01	645	B	0.01	645	B	0.01	645	B	0.01	645	B	0.02	645	B	0.02	645	B	0.01	645	B	0.	645
106	B	0.03	250	B	0.03	250	B	0.02	250	B	0.02	250	B	0.02	250	B	0.02	250	B	0.02	250	B	0.03	250
107	B	0.05	267	B	0.05	267	B	0.04	267	B	0.04	267	B	0.05	267	B	0.05	267	B	0.03	267	B	0.05	267
108	B	0.05	467	B	0.05	467	B	0.04	467	B	0.04	467	B	0.05	467	B	0.05	467	B	0.04	467	B	0.06	467
109	B	0.05	986	B	0.05	986	B	0.04	986	B	0.04	986	B	0.05	986	B	0.05	986	B	0.03	986	B	0.06	986

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
110	B 0.03 442	B 0.03 442	B 0.03 442	B 0.02 442	B 0.02 442	B 0.03 442	B 0.02 442	B 0.05 442
111	B 0.03 686	B 0.03 686	B 0.02 686	B 0.02 686	B 0.01 686	B 0.03 686	B 0.02 686	B 0.03 686
112	B 0.04 705	B 0.04 705	B 0.03 705	B 0.03 705	B 0.02 705	B 0.05 705	B 0.03 705	B 0.05 705
113	B 0.05 1580	B 0.05 1580	B 0.04 1580	B 0.04 1580	B 0.03 1580	B 0.05 1580	B 0.03 1580	B 0.08 1580
114	B 0.03 455	B 0.04 455	B 0.03 455	B 0.03 455	B 0.02 455	B 0.03 455	B 0.02 455	B 0.03 455
115	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
116	B 0.04 298	B 0.04 298	B 0.03 298	B 0.03 298	B 0.03 298	B 0.04 298	B 0.03 298	B 0.05 298
117	B 0.04 248	B 0.04 248	B 0.03 248	B 0.03 248	B 0.03 248	B 0.04 248	B 0.02 248	B 0.03 248
118	B 0.01 645	B 0.01 645	B 0.01 645	B 0.01 645	B 0.02 645	B 0.02 645	B 0.01 645	B 0.02 645
119	B 0.02 583	B 0.02 583	B 0.02 583	B 0.02 583	B 0.02 583	B 0.02 583	B 0.02 583	B 0.03 583
120	B 0.02 828	B 0.03 828	B 0.02 828	B 0.02 828	B 0.02 828	B 0.03 828	B 0.02 828	B 0.03 828
121	B 0.04 967	B 0.04 967	B 0.03 967	B 0.03 967	B 0.03 967	B 0.04 967	B 0.03 967	B 0.05 967
122	B 0.04 1580	B 0.03 1580	B 0.03 1580	B 0.03 1580	B 0.02 1580	B 0.03 1580	B 0.02 1580	B 0.05 1580
123	B 0.04 405	B 0.04 405	B 0.03 405	B 0.03 405	B 0.03 405	B 0.03 405	B 0.03 405	B 0.03 405
124	B 0.05 1002	B 0.05 1002	B 0.04 1002	B 0.04 1002	B 0.03 1002	B 0.05 1002	B 0.03 1002	B 0.06 1002
125	B 0.06 1377	B 0.06 1377	B 0.05 1377	B 0.05 1377	B 0.05 1377	B 0.06 1377	B 0.05 1377	B 0.08 1377
126	B 0.03 251	B 0.03 251	B 0.02 251	B 0.02 251	B 0.03 251	B 0.03 251	B 0.02 251	B 0.02 251
127	A 0.02 80	A 0.02 80	A 0.01 80	A 0.01 80	A 0.02 80	A 0.02 80	A 0.01 80	A 0.02 80
128	A 0.01 66	A 0.01 66	A 0.01 66	A 0.01 66	A 0.02 66	A 0.02 66	A 0.01 66	A 0.02 66
129	A 0.02 51	A 0.02 51	A 0.01 51	A 0.01 51	A 0.02 51	A 0.03 51	A 0.01 51	A 0. 51
130	A 0.02 64	A 0.02 64	A 0.02 64	A 0.02 64	A 0.02 64	A 0.02 64	A 0.01 64	A 0.02 64
131	A 0.02 78	A 0.02 78	A 0.02 78	A 0.02 78	A 0.02 78	A 0.03 78	A 0.01 78	A 0.03 78
132	B 0.04 395	B 0.04 395	B 0.03 395	B 0.03 395	B 0.03 395	B 0.05 395	B 0.03 395	B 0.05 395
133	B 0.03 148	B 0.03 148	B 0.02 148	B 0.02 148	B 0.03 148	B 0.02 148	B 0.02 148	B 0.03 148
134	B 0.01 76	B 0.01 76	B 0. 76	B 0.01 76	B 0. 76	B 0. 76	B 0.01 76	B 0.02 76
135	B 0.03 251	B 0.04 251	B 0.03 251	B 0.03 251	B 0.03 251	B 0.03 251	B 0.02 251	B 0.03 251
136	B 0.04 243	B 0.04 243	B 0.03 243	B 0.03 243	B 0.03 243	B 0.05 243	B 0.03 243	B 0.05 243
137	B 0.06 919	B 0.06 919	B 0.05 919	B 0.04 919	B 0.05 919	B 0.06 919	B 0.04 919	B 0.06 919

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
138	C 0.07 114	C 0.05 114	C 0.05 114	C 0.04 114	C 0.03 114	C 0.05 114	C 0.03 114	C 0.06 114
139	B 0.04 455	B 0.04 455	B 0.03 455	B 0.03 455	B 0.03 455	B 0.05 455	B 0.02 455	B 0.05 455
140	B 0.04 689	B 0.04 689	B 0.03 689	B 0.03 689	B 0.03 689	B 0.05 689	B 0.03 689	B 0.05 689
141	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
142	B 0.04 492	B 0.04 492	B 0.03 492	B 0.03 492	B 0.03 492	B 0.03 492	B 0.02 492	B 0.06 492
143	B 0.04 502	B 0.04 502	B 0.03 502	B 0.03 502	B 0.03 502	B 0.05 502	B 0.03 502	B 0.05 502
144	B 0.05 1714	B 0.05 1714	B 0.04 1714	B 0.04 1714	B 0.03 1714	B 0.06 1714	B 0.04 1714	B 0.06 1714
145	B 0.05 1289	B 0.05 1289	B 0.04 1289	B 0.04 1289	B 0.05 1289	B 0.06 1289	B 0.04 1289	B 0.06 1289
146	A 0.01 111	A 0.01 111	A 0.01 111	A 0.01 111	A 0.02 111	A 0. 111	A 0.01 111	A 0.02 111
147	A 0.01 104	A 0.01 104	A 0.01 104	A 0.01 104	A 0. 104	A 0.02 104	A 0.01 104	A 0.02 104
148	B 0.07 2748	B 0.06 2748	B 0.05 2748	B 0.05 2748	B 0.05 2748	B 0.06 2748	B 0.05 2748	B 0.08 2748
149	A 0.02 182	A 0.02 182	A 0.01 182	A 0.01 182	A 0. 182	A 0.02 182	A 0.01 182	A 0.03 182
150	B 0.08 2033	B 0.08 2033	B 0.07 2033	B 0.06 2033	B 0.08 2033	B 0.09 2033	B 0.07 2033	B 0.09 2033
151	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
152	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
153	A 0.02 113	A 0.03 113	A 0.02 113	A 0.02 113	A 0.02 113	A 0.02 113	A 0.01 113	A 0.02 113
154	B 0.02 40	B 0.02 40	B 0.02 40	B 0.02 40	B 0.01 40	B 0.02 40	B 0.01 40	B 0.02 40
155	B 0. 31	B 0.01 31	B 0. 31	B 0. 31	B 0. 31	B 0. 31	B 0. 31	B 0.02 31
156	B 0.02 28	B 0.02 28	B 0.02 28	B 0.02 28	B 0.01 28	B 0.02 28	B 0.01 28	B 0.02 28
157	A 0. 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
158	B 0. 57	B 0.01 57	B 0. 57	B 0. 57	B 0. 57	B 0. 57	B 0. 57	B 0.02 57
159	A 0.03 51	A 0.03 51	A 0.02 51	A 0.02 51	A 0.02 51	A 0.02 51	A 0.02 51	A 0.02 51
160	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
161	A 0.09 91	A 0.09 91	A 0.07 92	A 0.07 92	A 0.06 92	A 0.07 92	A 0.06 92	A 0.08 95
162	A 0.05 32	A 0.05 32	A 0.05 32	A 0.04 32	A 0.05 32	A 0.05 32	A 0.03 32	A 0.06 32
163	A 0.05 24	A 0.05 24	A 0.04 24	A 0.04 24	A 0.05 24	A 0.05 24	A 0.03 24	A 0.05 24
164	A 0.03 25	A 0.03 25	A 0.02 25	A 0.02 25	A 0.02 25	A 0.02 25	A 0.02 25	A 0.03 25
165	B 0.1 112	B 0.09 112	B 0.07 112	B 0.07 112	B 0.06 112	B 0.08 112	B 0.06 112	B 0.08 112

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Table 16 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
166	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
167	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
168	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
169	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
170	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
171	A	0.01	33	A	0.01	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
172	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
173	A	0.01	114	A	0.01	114	A	0.	114	A	0.	114	A	0.	114	A	0.02	114	A	0.01	114	A	0.02	114
174	A	0.	49	A	0.01	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.02	49
175	B	0.02	324	B	0.02	324	B	0.01	324	B	0.01	324	B	0.02	324	B	0.02	324	B	0.02	324	B	0.03	324
176	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
177	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
178	B	0.02	685	B	0.02	685	B	0.01	685	B	0.01	685	B	0.02	685	B	0.03	685	B	0.02	685	B	0.03	685
179	B	0.01	389	B	0.01	389	B	0.01	389	B	0.01	389	B	0.02	389	B	0.02	389	B	0.02	389	B	0.03	389
180	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
181	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
182	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
183	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
184	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
185	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
186	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
187	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
188	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
189	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
190	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
191	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
192	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
193	B	0.04	290	B	0.03	290	B	0.03	290	B	0.02	290	B	0.02	290	B	0.03	290	B	0.02	290	B	0.02	290

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
194	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94
195	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49
196	B	0.01	251	B	0.01	251	B	0.01	251	B	0.01	251	B	0.02	251	B	0.	251	B	0.	251	B	0.02	251
197	A	0.01	166	A	0.01	166	A	0.01	166	A	0.01	166	A	0.	166	A	0.	166	A	0.	166	A	0.	166
198	B	0.02	376	B	0.02	376	B	0.01	376	B	0.01	376	B	0.02	376	B	0.02	376	B	0.01	376	B	0.02	376
199	B	0.	1525	B	0.	1525	B	0.	1525	B	0.	1525	B	0.	1525	B	0.	1525	B	0.	1525	B	0.	1525
200	B	0.02	1227	B	0.02	1227	B	0.01	1227	B	0.01	1227	B	0.02	1227	B	0.02	1227	B	0.01	1227	B	0.02	1227
201	B	0.01	814	B	0.02	814	B	0.01	814	B	0.01	814	B	0.02	814	B	0.02	814	B	0.01	814	B	0.02	814
202	B	0.	3609	B	0.01	3609	B	0.	3609	B	0.	3609	B	0.02	3609	B	0.	3609	B	0.	3609	B	0.	3609
203	B	0.	2473	B	0.01	2473	B	0.	2473	B	0.	2473	B	0.	2473	B	0.	2473	B	0.	2473	B	0.	2473
204	B	0.	769	B	0.	769	B	0.	769	B	0.	769	B	0.02	769	B	0.02	769	B	0.	769	B	0.02	769
205	B	0.05	2607	B	0.04	2607	B	0.03	2607	B	0.03	2607	B	0.02	2607	B	0.03	2607	B	0.01	2607	B	0.03	2607
206	B	0.05	2673	B	0.04	2673	B	0.03	2673	B	0.03	2673	B	0.02	2673	B	0.03	2673	B	0.02	2673	B	0.02	2673
207	B	0.04	2882	B	0.04	2882	B	0.03	2882	B	0.03	2882	B	0.02	2882	B	0.03	2882	B	0.01	2882	B	0.03	2882
208	B	0.02	2907	B	0.02	2907	B	0.02	2907	B	0.02	2907	B	0.02	2907	B	0.03	2907	B	0.01	2907	B	0.02	2907
209	B	0.02	1942	B	0.02	1942	B	0.02	1942	B	0.02	1942	B	0.02	1942	B	0.02	1942	B	0.01	1942	B	0.02	1942
210	A	0.	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
211	A	0.01	84	A	0.02	84	A	0.01	84	A	0.01	84	A	0.02	84	A	0.	84	A	0.01	84	A	0.	84
212	B	0.02	376	B	0.02	376	B	0.01	376	B	0.01	376	B	0.02	376	B	0.	376	B	0.01	376	B	0.	376
213	B	0.01	223	B	0.02	223	B	0.01	223	B	0.01	223	B	0.02	223	B	0.02	223	B	0.01	223	B	0.	223
214	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39
215	A	0.04	364	A	0.02	364	A	0.02	364	A	0.02	364	A	0.02	364	A	0.03	364	A	0.01	364	A	0.02	364
216	A	0.03	380	A	0.02	380	A	0.02	380	A	0.02	380	A	0.02	380	A	0.02	380	A	0.01	380	A	0.02	380
217	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45
218	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40
219	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.02	30	A	0.	30	A	0.	30
220	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
221	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
222	A 0.01 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0. 29	A 0.01 29	A 0. 29	A 0. 29
223	A 0. 50	A 0. 50	A 0. 50	A 0. 50	A 0. 50	A 0. 50	A 0. 50	A 0. 50
224	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
225	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
226	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0. 38	A 0. 38	A 0.02 38
227	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60
228	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.02 36	A 0.01 36	A 0. 36	A 0.02 36
229	A 0.01 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0.02 40	A 0. 40	A 0. 40
230	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47	A 0.01 47	A 0. 47	A 0. 47
231	A 0.01 33	A 0.01 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33
232	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
233	A 0.01 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.02 45	A 0. 45	A 0.02 45
234	A 0.01 52	A 0.01 52	A 0.01 52	A 0.01 52	A 0. 52	A 0.01 52	A 0. 52	A 0. 52
235	A 0.01 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0.01 22	A 0. 22	A 0. 22
236	A 0.02 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.02 72	A 0.02 72	A 0. 72	A 0.02 72
237	A 0.01 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0.02 28	A 0. 28	A 0. 28	A 0.02 28
238	A 0.02 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.02 72	A 0.02 72	A 0.01 72	A 0.02 72
239	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0.02 60	A 0. 60	A 0. 60	A 0. 60
240	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
241	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
242	A 0.01 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0. 31	A 0. 31
243	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.01 38	A 0. 38	A 0. 38
244	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60
245	A 0. 50	A 0. 50	A 0. 50	A 0. 50	A 0. 50	A 0. 50	A 0. 50	A 0. 50
246	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
247	A 0.01 46	A 0.01 46	A 0.01 46	A 0.01 46	A 0. 46	A 0.01 46	A 0. 46	A 0. 46
248	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0.02 60
249	A 0.01 56	A 0.01 56	A 0.01 56	A 0.01 56	A 0.02 56	A 0.01 56	A 0. 56	A 0. 56

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
250	A 0. 53	A 0.01 53	A 0. 53	A 0. 53	A 0.02 53	A 0. 53	A 0. 53	A 0. 53
251	A 0. 38	A 0.01 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38
252	A 0. 23	A 0.01 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
253	A 0. 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
254	A 0.01 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0.02 72	A 0.01 72	A 0. 72
255	A 0.01 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0. 81	A 0. 81	A 0.01 81	A 0. 81
256	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.02 47	A 0.01 47	A 0. 47	A 0.02 47
257	A 0.02 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.02 72	A 0.02 72	A 0.01 72	A 0. 72
258	A 0.01 36	A 0.02 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0.01 36	A 0. 36
259	A 0.02 54	A 0.02 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0.01 54	A 0.01 54	A 0. 54
260	A 0.02 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0.02 72
261	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60
262	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55
263	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
264	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47	A 0.02 47	A 0. 47	A 0. 47
265	A 0. 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70
266	A 0. 60	A 0. 60	A 0. 60	A 0. 60	A 0.02 60	A 0. 60	A 0. 60	A 0.02 60
267	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
268	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0.02 37	A 0. 37	A 0. 37	A 0.02 37
269	A 0.01 41	A 0.01 41	A 0.01 41	A 0.01 41	A 0.02 41	A 0.02 41	A 0. 41	A 0. 41
270	A 0. 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.02 38	A 0. 38	A 0. 38	A 0. 38
271	A 0.01 54	A 0.01 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0.01 54	A 0. 54	A 0. 54
272	A 0.01 64	A 0.01 64	A 0.01 64	A 0.01 64	A 0.02 64	A 0.01 64	A 0. 64	A 0. 64
273	A 0. 38	A 0.01 38	A 0. 38	A 0. 38	A 0.02 38	A 0. 38	A 0. 38	A 0. 38
274	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0.02 37	A 0.02 37	A 0. 37	A 0.02 37
275	A 0.02 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0.02 63	A 0. 63	A 0. 63	A 0. 63
276	A 0.02 90	A 0.02 90	A 0.01 90	A 0.02 90	A 0.02 90	A 0.01 90	A 0.01 90	A 0. 90
277	A 0. 43	A 0.01 43	A 0. 43	A 0. 43	A 0. 43	A 0. 43	A 0. 43	A 0. 43

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
278	A 0. 23	A 0.01 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23
279	A 0.01 36	A 0.02 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.01 36	A 0. 36	A 0. 36
280	A 0.01 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0. 45
281	A 0.01 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0. 63
282	A 0.01 81	A 0.02 81	A 0.01 81	A 0.02 81	A 0.02 81	A 0.02 81	A 0.01 81	A 0.02 81
283	A 0.01 21	A 0.02 21	A 0.01 21	A 0.01 21	A 0.02 21	A 0.02 21	A 0. 21	A 0. 21
284	A 0.01 36	A 0.02 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.01 36	A 0.01 36	A 0. 36
285	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
286	A 0.01 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.02 45	A 0.02 45	A 0.01 45	A 0. 45
287	A 0.01 51	A 0.02 51	A 0.01 51	A 0.01 51	A 0.02 51	A 0.02 51	A 0.01 51	A 0. 51
288	A 0.02 44	A 0.02 44	A 0.02 44	A 0.02 44	A 0.02 44	A 0.02 44	A 0. 44	A 0. 44
289	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.01 62	A 0. 62
290	A 0.02 71	A 0.02 71	A 0.02 71	A 0.02 71	A 0.02 71	A 0.02 71	A 0.01 71	A 0.02 71
291	A 0.01 27	A 0.02 27	A 0.01 27	A 0.01 27	A 0.02 27	A 0.02 27	A 0. 27	A 0. 27
292	A 0.02 80	A 0.02 80	A 0.02 80	A 0.02 80	A 0.03 80	A 0.02 80	A 0.01 80	A 0. 80
293	A 0.01 36	A 0.02 36	A 0.01 36	A 0.01 36	A 0.02 36	A 0. 36	A 0. 36	A 0. 36
294	A 0.01 36	A 0.02 36	A 0.01 36	A 0.01 36	A 0.02 36	A 0.02 36	A 0.01 36	A 0. 36
295	A 0.02 53	A 0.02 53	A 0.02 53	A 0.02 53	A 0.02 53	A 0.02 53	A 0.01 53	A 0. 53
296	A 0.02 36	A 0.02 36	A 0.01 36	A 0.01 36	A 0.02 36	A 0. 36	A 0. 36	A 0. 36
297	A 0.02 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0. 81	A 0.01 81	A 0.01 81	A 0.02 81
298	A 0.02 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.02 45	A 0. 45	A 0.01 45	A 0. 45
299	A 0.01 67	A 0.01 67	A 0.01 67	A 0.01 67	A 0.02 67	A 0.02 67	A 0. 67	A 0. 67
300	A 0.01 57	A 0.02 57	A 0.01 57	A 0.01 57	A 0. 57	A 0.02 57	A 0. 57	A 0.02 57
301	A 0.01 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0. 42	A 0.02 42	A 0. 42	A 0. 42
302	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.02 27	A 0. 27	A 0. 27
303	A 0.02 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0. 81
304	A 0.01 40	A 0.02 40	A 0.01 40	A 0.02 40	A 0.02 40	A 0. 40	A 0.01 40	A 0. 40
305	A 0.02 44	A 0.02 44	A 0.02 44	A 0.02 44	A 0.03 44	A 0.02 44	A 0.01 44	A 0.02 44

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
306	A 0.02 54	A 0.02 54	A 0.02 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0. 54	A 0. 54
307	A 0.02 39	A 0.02 39	A 0.02 39	A 0.01 39	A 0. 39	A 0.02 39	A 0.01 39	A 0. 39
308	A 0.02 53	A 0.02 53	A 0.02 53	A 0.01 53	A 0.02 53	A 0.02 53	A 0.01 53	A 0. 53
309	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
310	A 0.01 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
311	A 0.02 72	A 0.02 72	A 0.02 72	A 0.01 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.02 72
312	A 0.02 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0.02 81	A 0.02 81	A 0.01 81	A 0. 81
313	A 0.02 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.02 72	A 0.02 72	A 0.01 72	A 0.02 72
314	A 0.01 44	A 0.02 44	A 0.01 44	A 0.01 44	A 0. 44	A 0. 44	A 0.01 44	A 0. 44
315	A 0.02 53	A 0.02 53	A 0.02 53	A 0.02 53	A 0.02 53	A 0.02 53	A 0.01 53	A 0. 53
316	A 0.02 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0. 45	A 0.02 45	A 0.01 45	A 0. 45
317	A 0.02 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.02 45	A 0.02 45	A 0.01 45	A 0.02 45
318	A 0.02 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.02 45	A 0.01 45	A 0. 45
319	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.01 62	A 0. 62
320	A 0.02 54	A 0.02 54	A 0.01 54	A 0.01 54	A 0. 54	A 0.02 54	A 0.01 54	A 0. 54
321	A 0.02 71	A 0.02 71	A 0.02 71	A 0.02 71	A 0.02 71	A 0.02 71	A 0.01 71	A 0.02 71
322	A 0.02 89	A 0.02 89	A 0.02 89	A 0.02 89	A 0.02 89	A 0.02 89	A 0.01 89	A 0. 89
323	B 0. 767	B 0. 767	B 0. 767	B 0. 767	B 0. 767	B 0. 767	B 0. 767	B 0.02 767
324	A 0. 286	A 0. 286	A 0. 286	A 0. 286	A 0. 286	A 0. 286	A 0. 286	A 0. 286
325	A 0.06 398	A 0.03 398	A 0.02 398	A 0.02 398	A 0.02 398	A 0.04 398	A 0.02 398	A 0.02 398
326	B 0.05 1076	B 0.03 1076	B 0.03 1076	B 0.03 1076	B 0.03 1076	B 0.05 1076	B 0.02 1076	B 0.02 1076
327	A 0.01 72	A 0.01 72	A 0. 72	A 0. 72	A 0. 72	A 0. 72	A 0.01 72	A 0.02 72
328	A 0.01 73	A 0.01 73	A 0.01 73	A 0.01 73	A 0. 73	A 0.02 73	A 0.01 73	A 0. 73
329	A 0.01 169	A 0.01 169	A 0.01 169	A 0.01 169	A 0.02 169	A 0. 169	A 0.01 169	A 0.02 169
330	A 0.01 169	A 0.01 169	A 0.01 169	A 0.01 169	A 0. 169	A 0.01 169	A 0.01 169	A 0.02 169
331	A 0.01 169	A 0.01 169	A 0.01 169	A 0.01 169	A 0.02 169	A 0.01 169	A 0.01 169	A 0.02 169
332	A 0.01 301	A 0.01 301	A 0.01 301	A 0.01 301	A 0. 301	A 0.01 301	A 0.01 301	A 0.02 301
333	A 0.01 301	A 0.01 301	A 0.01 301	A 0.01 301	A 0.02 301	A 0.01 301	A 0.01 301	A 0.02 301

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
334	B 0.02 370	B 0.02 370	B 0.02 370	B 0.02 370	B 0.02 370	B 0.02 370	B 0.01 370	B 0.02 370
335	B 0.02 195	B 0.02 206	B 0.02 206	B 0.02 206	B 0.02 206	B 0.02 206	B 0.01 206	B 0.02 206
336	B 0.04 403	B 0.04 403	B 0.04 403	B 0.03 403	B 0.03 403	B 0.04 403	B 0.02 403	B 0. 403
337	B 0.04 626	B 0.04 2032	B 0.03 2032	B 0.03 2032	B 0.03 2032	B 0.03 2032	B 0.02 2032	B 0.03 2032
338	B 0.03 972	B 0.03 972	B 0.02 972	B 0.02 972	B 0.02 972	B 0.02 972	B 0.02 972	B 0.02 972
339	B 0.03 408	B 0.03 408	B 0.02 408	B 0.02 408	B 0.02 408	B 0.03 408	B 0.02 408	B 0.03 408
340	B 0.02 372	B 0.02 372	B 0.02 372	B 0.02 372	B 0.01 372	B 0.02 372	B 0.01 372	B 0.02 372
341	B 0.04 501	B 0.03 501	B 0.02 501	B 0.02 501	B 0.02 501	B 0.03 501	B 0.02 501	B 0. 501
342	B 0.04 756	B 0.03 756	B 0.02 756	B 0.02 756	B 0.02 756	B 0.03 756	B 0.02 756	B 0.02 756
343	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0. 45	A 0.02 45	A 0. 45	A 0. 45
344	A 0. 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30	A 0. 30	A 0. 30
345	A 0.02 45	A 0.02 45	A 0.01 45	A 0.02 45	A 0. 45	A 0.01 45	A 0.01 45	A 0.02 45
346	A 0.01 57	A 0.02 68	A 0.01 68	A 0.01 68	A 0.02 68	A 0. 68	A 0.01 68	A 0. 68
347	A 0.02 75	A 0.02 100	A 0.01 100	A 0.01 100	A 0.02 100	A 0.01 100	A 0.01 100	A 0. 100
348	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0. 40	A 0.01 40	A 0. 40	A 0.02 40
349	A 0.01 35	A 0.01 35	A 0. 35	A 0.01 35	A 0. 35	A 0.01 35	A 0.01 35	A 0. 35
350	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.01 30	A 0. 30	A 0.02 30
351	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25
352	A 0. 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
353	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.02 45	A 0. 45	A 0.01 45	A 0. 45
354	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0.02 40	A 0.01 40	A 0. 40	A 0. 40
355	A 0.01 56	A 0.01 56	A 0.01 56	A 0.01 56	A 0.02 56	A 0.01 56	A 0.01 56	A 0. 56
356	A 0.02 63	A 0.02 63	A 0.01 63	A 0.02 63	A 0. 63	A 0.01 63	A 0.01 63	A 0.02 63
357	A 0.02 93	A 0.02 132	A 0.01 132	A 0.02 132	A 0.02 132	A 0.01 132	A 0.01 132	A 0.02 132
358	A 0.01 29	A 0.01 29	A 0. 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
359	A 0.02 75	A 0.02 86	A 0.02 86	A 0.02 86	A 0.02 86	A 0.02 86	A 0.01 86	A 0.02 86
360	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.01 54	A 0.02 54
361	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.01 70	A 0. 70

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
362	A 0.02 91	A 0.02 102	A 0.02 102	A 0.02 102	A 0.02 102	A 0.02 102	A 0.01 102	A 0.02 102
363	A 0.01 30	A 0.01 30	A 0. 30	A 0.01 30	A 0. 30	A 0.01 30	A 0. 30	A 0.02 30
364	A 0.02 66	A 0.02 84	A 0.01 84	A 0.01 84	A 0. 84	A 0.01 84	A 0.01 84	A 0. 84
365	A 0.01 40	A 0.01 40	A 0. 40	A 0.01 40	A 0.02 40	A 0.01 40	A 0. 40	A 0.02 40
366	A 0.01 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0.01 30	A 0. 30	A 0. 30
367	A 0.01 56	A 0.01 56	A 0.01 56	A 0.01 56	A 0. 56	A 0.01 56	A 0. 56	A 0. 56
368	A 0.02 75	A 0.02 100	A 0.02 100	A 0.02 100	A 0.02 100	A 0.01 100	A 0.01 100	A 0.02 100
369	A 0.02 84	A 0.02 116	A 0.02 116	A 0.02 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0.02 116
370	A 0.01 30	A 0.01 30	A 0. 30	A 0. 30	A 0.02 30	A 0. 30	A 0. 30	A 0. 30
371	A 0.02 93	A 0.02 132	A 0.02 132	A 0.02 132	A 0.02 132	A 0.02 132	A 0.01 132	A 0.02 132
372	A 0.02 81	A 0.02 81	A 0.02 81	A 0.02 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0. 81
373	A 0.02 82	A 0.02 86	A 0.02 86	A 0.02 86	A 0. 86	A 0.02 86	A 0.01 86	A 0. 86
374	A 0.02 100	A 0.02 118	A 0.02 118	A 0.02 118	A 0.02 118	A 0.02 118	A 0.01 118	A 0.02 118
375	A 0.02 66	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.01 70	A 0. 70
376	A 0.02 66	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.01 70	A 0.02 70
377	A 0. 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
378	A 0.02 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0. 63
379	A 0.02 75	A 0.02 86	A 0.02 86	A 0.02 86	A 0.02 86	A 0.02 86	A 0.01 86	A 0.02 86
380	A 0.02 75	A 0.02 93	A 0.02 93	A 0.02 93	A 0.02 93	A 0.02 93	A 0.01 93	A 0. 93
381	A 0.02 75	A 0.02 100	A 0.02 100	A 0.02 100	A 0.02 100	A 0.02 100	A 0.01 100	A 0.02 100
382	A 0.01 45	A 0.01 45	A 0. 45	A 0.01 45	A 0.02 45	A 0.01 45	A 0. 45	A 0. 45
383	A 0.01 74	A 0.01 74	A 0.01 74	A 0.01 74	A 0. 74	A 0.01 74	A 0.01 74	A 0. 74
384	A 0.02 66	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.01 70	A 0. 70
385	A 0.02 84	A 0.02 102	A 0.02 102	A 0.02 102	A 0.03 102	A 0.01 102	A 0.01 102	A 0.02 102
386	A 0.02 54	A 0.02 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0.01 54	A 0. 54	A 0.02 54
387	A 0.03 100	A 0.02 118	A 0.02 118	A 0.02 118	A 0.02 118	A 0.01 118	A 0.01 118	A 0.02 118
388	A 0.02 75	A 0.02 79	A 0.02 79	A 0.02 79	A 0. 79	A 0.02 79	A 0.01 79	A 0.02 79
389	A 0.02 66	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.01 70	A 0. 70

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Table 16 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
390	A	0.02	103	A	0.02	118	A	0.02	118	A	0.02	118	A	0.02	118	A	0.02	118	A	0.01	118	A	0.	118
391	A	0.01	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.01	25	A	0.	25	A	0.	25
392	A	0.02	66	A	0.02	84	A	0.01	84	A	0.01	84	A	0.02	84	A	0.01	84	A	0.01	84	A	0.	84
393	A	0.02	75	A	0.02	100	A	0.01	100	A	0.02	100	A	0.02	100	A	0.02	100	A	0.01	100	A	0.02	100
394	A	0.01	45	A	0.01	45	A	0.01	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.	45	A	0.02	45
395	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35	A	0.01	35	A	0.	35	A	0.	35
396	A	0.01	47	A	0.01	47	A	0.01	47	A	0.01	47	A	0.	47	A	0.01	47	A	0.	47	A	0.	47
397	B	0.03	387	B	0.03	367	B	0.02	367	B	0.02	367	B	0.02	367	B	0.02	367	B	0.01	367	B	0.02	367
398	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.	56	A	0.01	56	A	0.01	56	A	0.	56
399	A	0.01	47	A	0.01	47	A	0.01	47	A	0.01	47	A	0.02	47	A	0.01	47	A	0.01	47	A	0.	47
400	A	0.01	38	A	0.01	38	A	0.01	38	A	0.01	38	A	0.	38	A	0.01	38	A	0.	38	A	0.	38
401	A	0.02	66	A	0.02	70	A	0.02	70	A	0.02	70	A	0.02	70	A	0.	70	A	0.01	70	A	0.	70
402	A	0.02	81	A	0.02	81	A	0.02	81	A	0.02	81	A	0.01	81	A	0.02	81	A	0.01	81	A	0.02	81
403	A	0.01	36	A	0.02	36	A	0.01	36	A	0.02	36	A	0.02	36	A	0.02	36	A	0.01	36	A	0.02	36
404	A	0.02	75	A	0.02	79	A	0.02	79	A	0.02	79	A	0.02	79	A	0.02	79	A	0.01	79	A	0.	79
405	A	0.02	82	A	0.02	86	A	0.02	86	A	0.02	86	A	0.02	86	A	0.02	86	A	0.01	86	A	0.	86
406	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25
407	A	0.02	45	A	0.02	45	A	0.02	45	A	0.02	45	A	0.02	45	A	0.02	45	A	0.01	45	A	0.	45
408	A	0.02	66	A	0.02	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.01	77	A	0.02	77
409	A	0.02	75	A	0.02	93	A	0.02	93	A	0.02	93	A	0.02	93	A	0.02	93	A	0.01	93	A	0.02	93
410	A	0.01	35	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35	A	0.02	35	A	0.01	35	A	0.	35
411	A	0.02	75	A	0.02	93	A	0.02	93	A	0.02	93	A	0.03	93	A	0.02	93	A	0.01	93	A	0.	93
412	A	0.01	45	A	0.01	45	A	0.01	45	A	0.01	45	A	0.02	45	A	0.	45	A	0.	45	A	0.02	45
413	A	0.02	63	A	0.03	63	A	0.02	63	A	0.02	63	A	0.02	63	A	0.02	63	A	0.01	63	A	0.02	63
414	A	0.02	72	A	0.03	72	A	0.02	72	A	0.02	72	A	0.01	72	A	0.02	72	A	0.01	72	A	0.	72
415	A	0.02	45	A	0.02	45	A	0.02	45	A	0.02	45	A	0.02	45	A	0.02	45	A	0.01	45	A	0.	45
416	A	0.02	57	A	0.03	61	A	0.02	61	A	0.02	61	A	0.02	61	A	0.02	61	A	0.01	61	A	0.02	61
417	A	0.02	75	A	0.03	79	A	0.02	79	A	0.02	79	A	0.01	79	A	0.03	79	A	0.01	79	A	0.	79

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
418	A 0.01 38	A 0.02 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.02 38	A 0.01 38	A 0. 38
419	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
420	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0.01 40	A 0. 40	A 0. 40
421	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.03 54	A 0.01 54	A 0. 54
422	A 0.01 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0. 50	A 0.02 50	A 0.01 50	A 0.02 50
423	A 0.03 66	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.01 70	A 0.02 70
424	A 0.02 65	A 0.02 65	A 0.02 65	A 0.02 65	A 0.02 65	A 0.02 65	A 0.01 65	A 0.02 65
425	A 0.02 56	A 0.03 56	A 0.02 56	A 0.02 56	A 0.02 56	A 0.03 56	A 0.01 56	A 0.03 56
426	A 0.03 93	A 0.03 104	A 0.02 104	A 0.02 104	A 0.02 104	A 0.04 104	A 0.01 104	A 0.02 104
427	A 0.02 63	A 0.03 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.01 63	A 0.02 63
428	A 0.02 54	A 0.03 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.01 54	A 0.02 54
429	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.03 54	A 0.01 54	A 0.02 54
430	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.01 54	A 0. 54
431	A 0.02 75	A 0.03 79	A 0.02 79	A 0.02 79	A 0.03 79	A 0.02 79	A 0.01 79	A 0.02 79
432	A 0.03 100	A 0.03 104	A 0.02 104	A 0.03 104	A 0.02 104	A 0.03 104	A 0.01 104	A 0.02 104
433	A 0.03 112	A 0.03 120	A 0.03 120	A 0.03 120	A 0.02 120	A 0.02 120	A 0.01 120	A 0.02 120
434	B 0.03 755	B 0.03 755	B 0.02 755	B 0.02 755	B 0.02 755	B 0.03 755	B 0.02 755	B 0.02 755
435	B 0.02 722	B 0.02 722	B 0.02 722	B 0.02 722	B 0.02 722	B 0.02 722	B 0.02 722	B 0.03 722
436	A 0.01 74	A 0.01 74	A 0.01 74	A 0.01 74	A 0.02 74	A 0.01 74	A 0.01 74	A 0.02 74
437	B 0.02 505	B 0.02 505	B 0.02 505	B 0.01 505	B 0.02 505	B 0.02 505	B 0.01 505	B 0.03 505
438	A 0.02 177	A 0.01 177	A 0.01 177	A 0.01 177	A 0. 177	A 0.02 177	A 0.01 177	A 0. 177
439	A 0.02 322	A 0.02 322	A 0.01 322	A 0.01 322	A 0.02 322	A 0.02 322	A 0.01 322	A 0.02 322
440	B 0.04 198	B 0.04 198	B 0.03 198	B 0.03 198	B 0.03 198	B 0.04 198	B 0.02 198	B 0.02 198
441	A 0.01 73	A 0.01 73	A 0.01 73	A 0.01 73	A 0. 73	A 0.01 73	A 0.01 73	A 0.02 73
442	A 0.01 177	A 0.01 177	A 0.01 177	A 0.01 177	A 0.02 177	A 0.02 177	A 0.01 177	A 0.02 177
443	A 0.02 176	A 0.01 176	A 0.01 176	A 0.01 176	A 0. 176	A 0.01 176	A 0.01 176	A 0.02 176
444	B 0.04 503	B 0.04 503	B 0.04 503	B 0.03 503	B 0.03 503	B 0.03 503	B 0.03 503	B 0.05 503
445	A 0.01 177	A 0.01 177	A 0.01 177	A 0.01 177	A 0. 177	A 0.02 177	A 0.01 177	A 0.02 177

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Table 16 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
446	A	0.02	121	A	0.02	121	A	0.02	121	A	0.02	121	A	0.02	121	A	0.02	121	A	0.01	121	A	0.02	121
447	B	0.02	250	B	0.02	250	B	0.02	250	B	0.02	250	B	0.03	250	B	0.03	250	B	0.01	250	B	0.02	250
448	A	0.01	88	A	0.01	88	A	0.01	88	A	0.01	88	A	0.	88	A	0.01	88	A	0.	88	A	0.	88
449	B	0.03	202	B	0.03	202	B	0.02	202	B	0.02	202	B	0.02	202	B	0.03	202	B	0.02	202	B	0.02	202
450	A	0.02	138	A	0.02	138	A	0.01	138	A	0.02	138	A	0.02	138	A	0.01	138	A	0.01	138	A	0.02	138
451	A	0.02	115	A	0.02	115	A	0.01	115	A	0.01	115	A	0.02	115	A	0.02	115	A	0.01	115	A	0.02	115
452	A	0.02	163	A	0.02	163	A	0.02	163	A	0.02	163	A	0.02	163	A	0.02	163	A	0.01	163	A	0.02	163
453	A	0.02	208	A	0.02	208	A	0.02	208	A	0.02	208	A	0.02	208	A	0.01	208	A	0.01	208	A	0.02	208
454	B	0.08	300	B	0.07	300	B	0.04	300	B	0.04	300	B	0.05	300	B	0.06	300	B	0.04	300	B	0.05	300
455	B	0.03	154	B	0.03	154	B	0.02	154	B	0.02	154	B	0.03	154	B	0.02	154	B	0.02	154	B	0.03	154
456	B	0.02	202	B	0.02	202	B	0.02	202	B	0.02	202	B	0.02	202	B	0.03	202	B	0.01	202	B	0.02	202
457	A	0.02	113	A	0.02	113	A	0.02	113	A	0.02	113	A	0.02	113	A	0.03	113	A	0.01	113	A	0.03	113
458	A	0.02	96	A	0.02	96	A	0.02	96	A	0.01	96	A	0.02	96	A	0.01	96	A	0.01	96	A	0.02	96
459	B	0.02	250	B	0.03	250	B	0.02	250	B	0.02	250	B	0.02	250	B	0.03	250	B	0.02	250	B	0.03	250
460	A	0.02	121	A	0.02	121	A	0.01	121	A	0.01	121	A	0.02	121	A	0.02	121	A	0.01	121	A	0.02	121
461	B	0.02	191	B	0.02	191	B	0.02	191	B	0.02	191	B	0.02	191	B	0.02	191	B	0.01	191	B	0.02	191
462	B	0.02	250	B	0.02	250	B	0.02	250	B	0.02	250	B	0.02	250	B	0.03	250	B	0.01	250	B	0.02	250
463	B	0.05	394	B	0.05	394	B	0.05	394	B	0.05	394	B	0.05	394	B	0.05	394	B	0.04	394	B	0.05	394
464	A	0.02	155	A	0.02	155	A	0.02	155	A	0.02	155	A	0.02	155	A	0.02	155	A	0.01	155	A	0.03	155
465	A	0.02	180	A	0.02	180	A	0.02	180	A	0.02	180	A	0.02	180	A	0.02	180	A	0.01	180	A	0.02	180
466	B	0.02	346	B	0.02	346	B	0.02	346	B	0.02	346	B	0.01	346	B	0.02	346	B	0.01	346	B	0.02	346
467	B	0.02	394	B	0.02	394	B	0.02	394	B	0.02	394	B	0.02	394	B	0.02	394	B	0.01	394	B	0.02	394
468	B	0.02	124	B	0.02	124	B	0.02	124	B	0.02	124	B	0.02	124	B	0.02	124	B	0.01	124	B	0.02	124
469	A	0.02	147	A	0.02	147	A	0.02	147	A	0.02	147	A	0.01	147	A	0.02	147	A	0.01	147	A	0.02	147
470	A	0.02	208	A	0.02	208	A	0.02	208	A	0.02	208	A	0.02	208	A	0.02	208	A	0.01	208	A	0.02	208
471	B	0.02	298	B	0.02	298	B	0.02	298	B	0.02	298	B	0.03	298	B	0.02	298	B	0.01	298	B	0.02	298
472	A	0.02	172	A	0.02	172	A	0.02	172	A	0.02	172	A	0.02	172	A	0.02	172	A	0.01	172	A	0.03	172
473	A	0.01	120	A	0.01	120	A	0.	120	A	0.	120	A	0.	120	A	0.02	120	A	0.	120	A	0.02	120

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
474	A	0.02	132	A	0.02	132	A	0.01	132	A	0.01	132	A	0.01	132	A	0.	132	A	0.01	132	A	0.02	132
475	B	0.02	270	B	0.02	270	B	0.02	270	B	0.02	270	B	0.02	270	B	0.03	270	B	0.01	270	B	0.02	270
476	B	0.02	394	B	0.02	394	B	0.02	394	B	0.02	394	B	0.02	394	B	0.02	394	B	0.01	394	B	0.	394
477	A	0.02	172	A	0.01	172	A	0.01	172	A	0.01	172	A	0.	172	A	0.01	172	A	0.01	172	A	0.02	172
478	A	0.02	149	A	0.02	149	A	0.01	149	A	0.01	149	A	0.02	149	A	0.02	149	A	0.01	149	A	0.02	149
479	A	0.02	197	A	0.02	197	A	0.02	197	A	0.02	197	A	0.02	197	A	0.02	197	A	0.01	197	A	0.02	197
480	B	0.02	332	B	0.02	332	B	0.02	332	B	0.02	332	B	0.02	332	B	0.02	332	B	0.01	332	B	0.02	332
481	B	0.02	346	B	0.02	346	B	0.02	346	B	0.02	346	B	0.02	346	B	0.02	346	B	0.01	346	B	0.02	346
482	A	0.02	155	A	0.02	155	A	0.02	155	A	0.01	155	A	0.02	155	A	0.02	155	A	0.01	155	A	0.02	155
483	A	0.02	138	A	0.02	138	A	0.01	138	A	0.01	138	A	0.	138	A	0.02	138	A	0.01	138	A	0.02	138
484	B	0.02	298	B	0.03	298	B	0.02	298	B	0.02	298	B	0.03	298	B	0.02	298	B	0.02	298	B	0.03	298
485	A	0.02	181	A	0.02	181	A	0.02	181	A	0.02	181	A	0.02	181	A	0.02	181	A	0.01	181	A	0.02	181
486	B	0.02	184	B	0.02	184	B	0.02	184	B	0.02	184	B	0.02	184	B	0.02	184	B	0.01	184	B	0.02	184
487	B	0.02	202	B	0.02	202	B	0.02	202	B	0.02	202	B	0.03	202	B	0.02	202	B	0.01	202	B	0.02	202
488	A	0.02	70	A	0.02	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.02	70	A	0.01	70	A	0.02	70
489	A	0.02	69	A	0.02	69	A	0.02	69	A	0.02	69	A	0.02	69	A	0.02	69	A	0.01	69	A	0.02	69
490	B	0.02	108	B	0.02	108	B	0.02	108	B	0.02	108	B	0.02	108	B	0.02	108	B	0.01	108	B	0.02	108
491	A	0.02	104	A	0.02	104	A	0.01	104	A	0.01	104	A	0.02	104	A	0.02	104	A	0.01	104	A	0.02	104
492	B	0.02	202	B	0.02	202	B	0.02	202	B	0.02	202	B	0.02	202	B	0.01	202	B	0.02	202	B	0.02	202
493	A	0.01	104	A	0.02	104	A	0.01	104	A	0.01	104	A	0.02	104	A	0.	104	A	0.01	104	A	0.02	104
494	A	0.01	88	A	0.01	88	A	0.	88	A	0.	88	A	0.	88	A	0.02	88	A	0.	88	A	0.	88
495	B	0.02	298	B	0.03	298	B	0.02	298	B	0.02	298	B	0.02	298	B	0.02	298	B	0.02	298	B	0.02	298
496	B	0.03	346	B	0.03	346	B	0.02	346	B	0.02	346	B	0.02	346	B	0.03	346	B	0.02	346	B	0.03	346
497	A	0.02	104	A	0.02	104	A	0.02	104	A	0.02	104	A	0.02	104	A	0.02	104	A	0.01	104	A	0.02	104
498	A	0.02	87	A	0.02	87	A	0.02	87	A	0.02	87	A	0.02	87	A	0.03	87	A	0.01	87	A	0.02	87
499	A	0.02	70	A	0.02	70	A	0.02	70	A	0.02	70	A	0.02	70	A	0.02	70	A	0.01	70	A	0.02	70
500	B	0.02	108	B	0.02	108	B	0.02	108	B	0.02	108	B	0.02	108	B	0.02	108	B	0.02	108	B	0.03	108
501	B	0.02	154	B	0.02	154	B	0.02	154	B	0.02	154	B	0.02	154	B	0.02	154	B	0.01	154	B	0.02	154

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Table 16 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
502	A	0.02	116	A	0.02	116	A	0.02	116	A	0.02	116	A	0.02	116	A	0.02	116	A	0.01	116	A	0.02	116
503	A	0.02	82	A	0.02	82	A	0.02	82	A	0.02	82	A	0.02	82	A	0.02	82	A	0.01	82	A	0.02	82
504	A	0.02	123	A	0.03	123	A	0.02	123	A	0.02	123	A	0.01	123	A	0.02	123	A	0.01	123	A	0.02	123
505	B	0.02	209	B	0.02	209	B	0.02	209	B	0.02	209	B	0.02	209	B	0.02	209	B	0.02	209	B	0.03	209
506	B	0.03	305	B	0.03	305	B	0.02	305	B	0.02	305	B	0.02	305	B	0.02	305	B	0.02	305	B	0.	305
507	A	0.02	106	A	0.02	106	A	0.02	106	A	0.02	106	A	0.01	106	A	0.02	106	A	0.01	106	A	0.03	106
508	A	0.02	123	A	0.02	123	A	0.02	123	A	0.02	123	A	0.02	123	A	0.02	123	A	0.01	123	A	0.02	123
509	B	0.02	108	B	0.03	108	B	0.02	108	B	0.02	108	B	0.02	108	B	0.03	108	B	0.02	108	B	0.02	108
510	A	0.02	137	A	0.02	137	A	0.02	137	A	0.02	137	A	0.02	137	A	0.03	137	A	0.02	137	A	0.02	137
511	B	0.03	257	B	0.03	257	B	0.02	257	B	0.03	257	B	0.02	257	B	0.02	257	B	0.02	257	B	0.02	257
512	A	0.01	27	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
513	B	0.03	257	B	0.03	257	B	0.02	257	B	0.02	257	B	0.02	257	B	0.03	257	B	0.02	257	B	0.03	257
514	A	0.02	171	A	0.02	171	A	0.02	171	A	0.02	171	A	0.02	171	A	0.03	171	A	0.01	171	A	0.02	171
515	A	0.02	171	A	0.02	171	A	0.02	171	A	0.02	171	A	0.02	171	A	0.02	171	A	0.01	171	A	0.02	171
516	B	0.03	257	B	0.03	257	B	0.02	257	B	0.02	257	B	0.03	257	B	0.03	257	B	0.02	257	B	0.02	257
517	A	0.02	168	A	0.02	168	A	0.02	168	A	0.02	168	A	0.03	168	A	0.02	168	A	0.02	168	A	0.02	168
518	B	0.02	134	B	0.02	134	B	0.02	134	B	0.02	134	B	0.02	134	B	0.03	134	B	0.02	134	B	0.03	134
519	A	0.03	199	A	0.03	199	A	0.02	199	A	0.02	199	A	0.01	199	A	0.02	199	A	0.02	199	A	0.03	199
520	A	0.01	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.02	32	A	0.	32	A	0.	32	A	0.02	32
521	C	0.12	267	C	0.06	267	C	0.05	267	C	0.05	267	C	0.05	267	C	0.05	267	C	0.04	267	C	0.05	267
522	C	0.05	386	C	0.06	386	C	0.05	386	C	0.05	386	C	0.04	386	C	0.05	386	C	0.04	386	C	0.05	386
523	C	0.04	386	C	0.03	386	C	0.03	386	C	0.02	386	C	0.03	386	C	0.03	386	C	0.02	386	C	0.03	386
524	C	0.09	189	C	0.09	189	C	0.08	189	C	0.08	189	C	0.08	189	C	0.08	189	C	0.06	189	C	0.08	189
525	C	0.06	272	C	0.06	272	C	0.06	272	C	0.06	272	C	0.06	272	C	0.06	272	C	0.04	272	C	0.06	272
526	C	0.04	67	C	0.04	67	C	0.03	67	C	0.03	67	C	0.03	67	C	0.03	67	C	0.02	67	C	0.03	67
527	C	0.08	272	C	0.08	272	C	0.07	272	C	0.07	272	C	0.06	272	C	0.08	272	C	0.05	272	C	0.06	272
528	C	0.02	184	C	0.02	184	C	0.02	184	C	0.01	184	C	0.	184	C	0.01	184	C	0.01	184	C	0.03	184
529	C	0.06	505	C	0.06	505	C	0.05	505	C	0.05	505	C	0.05	505	C	0.05	505	C	0.04	505	C	0.06	505

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
530	C	0.03	272	C	0.03	272	C	0.03	272	C	0.02	272	C	0.02	272	C	0.03	272	C	0.02	272	C	0.03	272
531	C	0.06	624	C	0.06	624	C	0.06	624	C	0.06	624	C	0.06	624	C	0.06	624	C	0.04	624	C	0.06	624
532	C	0.02	179	C	0.02	179	C	0.02	179	C	0.02	179	C	0.02	179	C	0.02	179	C	0.01	179	C	0.02	179
533	C	0.03	174	C	0.03	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.03	174	C	0.02	174	C	0.03	174
534	C	0.03	391	C	0.03	391	C	0.03	391	C	0.03	391	C	0.02	391	C	0.04	391	C	0.02	391	C	0.02	391
535	C	0.03	624	C	0.03	624	C	0.03	624	C	0.03	624	C	0.02	624	C	0.04	624	C	0.02	624	C	0.03	624
536	C	0.02	169	C	0.02	169	C	0.02	169	C	0.02	169	C	0.02	169	C	0.02	169	C	0.01	169	C	0.02	169
537	C	0.03	174	C	0.03	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.04	174	C	0.02	174	C	0.03	174
538	C	0.04	277	C	0.03	277	C	0.03	277	C	0.03	277	C	0.02	277	C	0.04	277	C	0.02	277	C	0.03	277
539	C	0.03	267	C	0.03	267	C	0.03	267	C	0.03	267	C	0.03	267	C	0.03	267	C	0.02	267	C	0.03	267
540	C	0.04	383	C	0.04	383	C	0.03	383	C	0.03	383	C	0.03	383	C	0.05	383	C	0.03	383	C	0.03	383
541	C	0.02	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.01	174	C	0.02	174
542	C	0.03	505	C	0.04	505	C	0.03	505	C	0.03	505	C	0.03	505	C	0.03	505	C	0.02	505	C	0.03	505
543	C	0.03	624	C	0.04	624	C	0.03	624	C	0.03	624	C	0.02	624	C	0.03	624	C	0.02	624	C	0.05	624
544	C	0.09	862	C	0.09	862	C	0.08	862	C	0.08	862	C	0.08	862	C	0.08	862	C	0.06	862	C	0.09	862
545	C	0.02	189	C	0.02	189	C	0.01	189	C	0.02	189	C	0.02	189	C	0.02	189	C	0.01	189	C	0.03	189
546	C	0.03	179	C	0.03	179	C	0.02	179	C	0.02	179	C	0.02	179	C	0.03	179	C	0.02	179	C	0.03	179
547	C	0.03	396	C	0.03	396	C	0.03	396	C	0.03	396	C	0.03	396	C	0.04	396	C	0.02	396	C	0.03	396
548	C	0.02	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.01	174	C	0.02	174
549	C	0.04	505	C	0.03	505	C	0.03	505	C	0.03	505	C	0.03	505	C	0.04	505	C	0.03	505	C	0.05	505
550	C	0.03	179	C	0.03	179	C	0.02	179	C	0.02	179	C	0.03	179	C	0.03	179	C	0.02	179	C	0.03	179
551	C	0.03	174	C	0.03	174	C	0.02	174	C	0.02	174	C	0.02	174	C	0.03	174	C	0.02	174	C	0.02	174
552	C	0.03	164	C	0.03	164	C	0.02	164	C	0.02	164	C	0.03	164	C	0.03	164	C	0.02	164	C	0.03	164
553	C	0.04	267	C	0.04	267	C	0.03	267	C	0.03	267	C	0.03	267	C	0.05	267	C	0.02	267	C	0.03	267
554	C	0.03	277	C	0.03	277	C	0.03	277	C	0.02	277	C	0.02	277	C	0.04	277	C	0.02	277	C	0.03	277
555	C	0.03	267	C	0.03	267	C	0.03	267	C	0.03	267	C	0.03	267	C	0.04	267	C	0.02	267	C	0.03	267
556	C	0.04	267	C	0.04	267	C	0.03	267	C	0.03	267	C	0.03	267	C	0.05	267	C	0.03	267	C	0.03	267
557	C	0.03	164	C	0.03	164	C	0.03	164	C	0.03	164	C	0.03	164	C	0.04	164	C	0.02	164	C	0.02	164

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
558	C 0.04 386	C 0.04 386	C 0.03 386	C 0.03 386	C 0.03 386	C 0.03 386	C 0.03 386	C 0.03 386
559	C 0.02 179	C 0.02 179	C 0.02 179	C 0.01 179	C 0. 179	C 0.02 179	C 0.01 179	C 0. 179
560	C 0.03 267	C 0.03 267	C 0.03 267	C 0.03 267	C 0.01 267	C 0.03 267	C 0.02 267	C 0.03 267
561	C 0.04 624	C 0.04 624	C 0.03 624	C 0.03 624	C 0.03 624	C 0.05 624	C 0.03 624	C 0.03 624
562	C 0.04 743	C 0.04 743	C 0.03 743	C 0.03 743	C 0.03 743	C 0.05 743	C 0.03 743	C 0.03 743
563	B 0.19 1011	B 0.17 1011	B 0.14 1011	B 0.14 1011	B 0.12 1011	B 0.17 1011	B 0.12 1007	B 0.14 1007
564	B 0.12 4067	B 0.12 4067	B 0.1 4067	B 0.1 4067	B 0.12 4067	B 0.19 4067	B 0.12 4066	B 0.17 4066
565	C 0.02 33	C 0.02 33	C 0.02 33	C 0.02 33	C 0.03 33	C 0.02 33	C 0.02 33	C 0.03 33
566	C 0.03 169	C 0.03 169	C 0.03 169	C 0.03 169	C 0.03 169	C 0.03 169	C 0.02 169	C 0.02 169
567	C 0.03 159	C 0.04 159	C 0.03 159	C 0.03 159	C 0.03 159	C 0.05 159	C 0.02 159	C 0.03 159
568	C 0.03 272	C 0.03 272	C 0.03 272	C 0.03 272	C 0.03 272	C 0.05 272	C 0.02 272	C 0.03 272
569	C 0.03 267	C 0.04 267	C 0.03 267	C 0.03 267	C 0.03 267	C 0.03 267	C 0.02 267	C 0.03 267
570	B 0.1 155	B 0.07 155	B 0.08 155	B 0.06 155	B 0.06 155	B 0.06 155	B 0.05 155	B 0.06 155
571	C 0.05 159	C 0.05 159	C 0.05 159	C 0.05 159	C 0.03 159	C 0.05 159	C 0.04 159	C 0.05 159
572	C 0.03 184	C 0.03 184	C 0.02 184	C 0.02 184	C 0.03 184	C 0.05 184	C 0.02 184	C 0.03 184
573	C 0.03 174	C 0.03 174	C 0.02 174	C 0.02 174	C 0.02 174	C 0.03 174	C 0.02 174	C 0.02 174
574	C 0.03 164	C 0.03 164	C 0.02 164	C 0.03 164	C 0.03 164	C 0.03 164	C 0.02 164	C 0.02 164
575	C 0.03 159	C 0.03 159	C 0.02 159	C 0.03 159	C 0.03 159	C 0.03 159	C 0.02 159	C 0.03 159
576	C 0.04 267	C 0.04 267	C 0.04 267	C 0.04 267	C 0.03 267	C 0.05 267	C 0.03 267	C 0.05 267
577	C 0.03 169	C 0.04 169	C 0.03 169	C 0.03 169	C 0.03 169	C 0.05 169	C 0.02 169	C 0.03 169
578	C 0.06 276	C 0.06 276	C 0.05 276	C 0.05 276	C 0.05 276	C 0.06 276	C 0.04 276	C 0.03 276
579	C 0.04 383	C 0.04 383	C 0.03 383	C 0.03 383	C 0.03 383	C 0.04 383	C 0.03 383	C 0.05 383
580	C 0.04 502	C 0.04 502	C 0.04 502	C 0.04 502	C 0.03 502	C 0.05 502	C 0.03 502	C 0.05 502
581	C 0.04 276	C 0.04 276	C 0.03 276	C 0.04 276	C 0.05 276	C 0.05 276	C 0.03 276	C 0.02 276
582	C 0.04 286	C 0.04 286	C 0.04 286	C 0.04 286	C 0.05 286	C 0.06 286	C 0.03 286	C 0.03 286
583	C 0.04 276	C 0.04 276	C 0.04 276	C 0.03 276	C 0.03 276	C 0.06 276	C 0.03 276	C 0.05 276
584	C 0.04 393	C 0.04 393	C 0.04 393	C 0.04 393	C 0.03 393	C 0.04 393	C 0.03 393	C 0.05 393
585	C 0.04 383	C 0.04 383	C 0.03 383	C 0.03 383	C 0.03 383	C 0.04 383	C 0.03 383	C 0.03 383

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Table 16 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
586	C	0.04	502	C	0.04	502	C	0.04	502	C	0.04	502	C	0.03	502	C	0.05	502	C	0.03	502	C	0.03	502
587	C	0.04	621	C	0.05	621	C	0.04	621	C	0.04	621	C	0.05	621	C	0.05	621	C	0.03	621	C	0.05	621
588	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
589	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
590	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
591	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
592	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
593	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
594	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.01	27	A	0.01	27	A	0.02	27
595	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
596	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
597	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
598	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
599	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
600	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
601	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
602	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
603	A	0.01	42	A	0.01	42	A	0.01	42	A	0.	42	A	0.02	42	A	0.01	42	A	0.01	42	A	0.02	42
604	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
605	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
606	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
607	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
608	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
609	B	0.02	741	B	0.02	741	B	0.01	741	B	0.01	741	B	0.01	741	B	0.02	741	B	0.02	741	B	0.02	741
610	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
611	B	0.02	662	B	0.01	662	B	0.01	662	B	0.01	662	B	0.02	662	B	0.02	662	B	0.01	662	B	0.03	662
612	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
613	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 16 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
614	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
615	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
616	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
617	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
618	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
619	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
620	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
621	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
622	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
623	B 0.02 187	B 0.01 187	B 0.01 187	B 0.01 187	B 0.02 187	B 0.03 187	B 0.02 187	B 0.02 187
624	A 0.01 69	A 0.01 69	A 0.01 69	A 0.01 69	A 0. 69	A 0.01 69	A 0.01 69	A 0.02 69
625	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
626	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
627	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.15 $1_Algebraic_functions\backslash 1.1Binomialproducts\backslash 1.1.1Linear\backslash 1.1.1.4(a+bx)^m(c+dx)^n(e+fx)^p(g+hx)^q$

Table 17: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	C 0.04 132	C 0.04 132	C 0.04 132	C 0.03 132	C 0.03 132	C 0.03 132	C 0.03 132	C 0.05 132
2	C 0.02 111	C 0.02 111	C 0.02 111	C 0.02 111	C 0.02 111	C 0.03 111	C 0.02 111	C 0.03 111
3	A 0.01 41	A 0.01 41	A 0.01 41	A 0.01 41	A 0.02 41	A 0.01 41	A 0.01 41	A 0.02 41
4	B 0.02 196	B 0.03 196	B 0.02 196	B 0.02 196	B 0.02 196	B 0.02 196	B 0.01 196	B 0.02 196
5	A 0.03 192	B 0.03 446	B 0.02 446	B 0.02 446	B 0.02 446	B 0.02 446	B 0.02 446	B 0.02 446
6	B 0.03 424	B 0.03 735	B 0.02 735	B 0.02 735	B 0.02 735	B 0.03 735	B 0.01 735	B 0.02 735
7	A 0.02 176	A 0.01 137	A 0.01 137	A 0.01 137	A 0.02 137	A 0.01 137	A 0.01 137	A 0.02 137

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Table 17 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	B	0.02	894	B	0.01	894	B	0.01	894	B	0.01	894	B	0.02	894	B	0.02	894	B	0.02	894	B	0.03	894
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	B	0.13	552	B	0.1	552	B	0.08	552	B	0.08	552	B	0.06	552	B	0.11	552	B	0.07	552	B	0.09	552
12	B	0.37	4660	B	0.37	4660	B	0.3	4660	B	0.29	4660	B	0.33	4660	B	0.42	4660	B	0.34	4660	B	0.47	4660
13	B	0.11	16526	B	0.12	16526	B	0.1	16526	B	0.09	16526	B	0.09	16526	B	0.16	16526	B	0.09	16526	B	0.12	16526
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	A	0.02	44	A	0.03	44	A	0.02	44	A	0.02	44	A	0.02	44	A	0.03	44	A	0.02	44	A	0.02	44

2.16 $1_Algebraic_functions\backslash 1.1Binomialproducts\backslash 1.1.2Quadratic\backslash 1.1.2.2(cx)^m(a+bx^2)^p$

Table 18: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
2	A	0.	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
3	A	0.01	11	A	0.01	11	A	0.	11	A	0.01	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11
4	A	0.01	14	A	0.01	14	A	0.01	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
5	A	0.01	14	A	0.01	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
6	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25
7	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
8	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
9	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
10	B	0.	36	B	0.	36	B	0.	36	B	0.	36	B	0.	36	B	0.	36	B	0.	36	B	0.	36
11	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.02	36	A	0.	36	A	0.	36	A	0.	36

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Table 18 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
12	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
13	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.02 36	A 0. 36	A 0. 36	A 0. 36
14	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
15	A 0.01 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0. 57	A 0.01 57	A 0. 57	A 0. 57
16	A 0.01 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0. 57	A 0. 57	A 0.02 57
17	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58
18	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58
19	A 0.01 89	A 0.01 89	A 0.01 89	A 0.01 89	A 0.02 89	A 0. 89	A 0. 89	A 0. 89
20	A 0.01 89	A 0.01 89	A 0.01 89	A 0.01 89	A 0.02 89	A 0.02 89	A 0. 89	A 0. 89
21	B 0.01 91	B 0.01 91	B 0.01 91	B 0.01 91	B 0.02 91	B 0. 91	B 0. 91	B 0.02 91
22	A 0.01 91	A 0.01 91	A 0.01 91	A 0.01 91	A 0.02 91	A 0. 91	A 0. 91	A 0.02 91
23	A 0.01 91	A 0.01 91	A 0.01 91	A 0.01 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91
24	A 0.01 91	A 0.01 91	A 0.01 91	A 0.01 91	A 0. 91	A 0.01 91	A 0. 91	A 0. 91
25	A 0. 89	A 0.01 89	A 0.01 89	A 0.01 89	A 0. 89	A 0.02 89	A 0. 89	A 0. 89
26	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57
27	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
28	A 0.02 68	A 0.02 68	A 0.01 68	A 0.01 68	A 0. 68	A 0.02 68	A 0. 68	A 0. 68
29	A 0.02 41	A 0.02 41	A 0.01 41	A 0.01 41	A 0. 41	A 0.02 41	A 0. 41	A 0. 41
30	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15	A 0. 15
31	A 0. 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.01 36	A 0. 36	A 0. 36
32	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
33	A 0.02 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.01 46	A 0.02 46
34	A 0.02 61	A 0.02 61	A 0.02 61	A 0.02 61	A 0.02 61	A 0.02 61	A 0.01 61	A 0. 61
35	A 0.02 58	A 0.02 58	A 0.01 58	A 0.01 58	A 0. 58	A 0.02 58	A 0. 58	A 0. 58
36	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0. 62	A 0.02 62	A 0.01 62	A 0. 62
37	A 0.02 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.01 79	A 0.02 79	A 0.01 79	A 0. 79
38	A 0.02 101	A 0.02 101	A 0.02 101	A 0.02 101	A 0.02 101	A 0.03 101	A 0.01 101	A 0. 101
39	A 0.01 47	A 0.02 52	A 0.01 52	A 0.01 52	A 0.01 52	A 0.02 52	A 0. 52	A 0. 52

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Table 18 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
40	A 0.01 51	A 0.01 51	A 0.01 51	A 0.01 51	A 0.02 51	A 0. 51	A 0. 51	A 0. 51
41	B 0.02 150	B 0.02 150	B 0.01 150	B 0.01 150	B 0.01 150	B 0. 150	B 0.01 150	B 0. 150
42	A 0.03 147	A 0.03 147	A 0.03 147	A 0.02 147	A 0.02 147	A 0.02 147	A 0.01 147	A 0. 147
43	A 0.02 124	A 0.02 181	A 0.02 181	A 0.01 181	A 0.02 181	A 0. 181	A 0.01 181	A 0.02 181
44	A 0.02 124	A 0.02 183	A 0.01 183	A 0.01 183	A 0.02 183	A 0.01 183	A 0. 183	A 0.02 183
45	A 0. 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
46	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
47	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
48	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0.01 35	A 0. 35	A 0.02 35
49	A 0. 107	A 0.01 107	A 0.01 107	A 0.01 107	A 0.02 107	A 0.01 107	A 0. 107	A 0. 107
50	A 0.02 87	A 0.02 87	A 0.02 87	A 0.02 87	A 0.02 87	A 0.02 87	A 0.01 87	A 0.02 87
51	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16
52	A 0.01 34	A 0.01 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34
53	A 0.01 38	A 0.01 38	A 0. 38	A 0. 38	A 0. 38	A 0.02 38	A 0. 38	A 0. 38
54	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
55	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
56	A 0.01 27	A 0.01 27	A 0. 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
57	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0.02 27	A 0. 27	A 0. 27	A 0. 27
58	A 0.02 152	A 0.02 152	A 0.01 152	A 0.01 152	A 0.01 152	A 0. 152	A 0.01 152	A 0.02 152
59	A 0.01 143	A 0.01 143	A 0.01 143	A 0.01 143	A 0. 143	A 0. 143	A 0.01 143	A 0. 143
60	A 0.02 149	A 0.02 149	A 0.01 149	A 0.01 149	A 0. 149	A 0.02 149	A 0.01 149	A 0. 149
61	A 0.03 178	A 0.03 176	A 0.02 176	A 0.02 176	A 0.02 176	A 0.02 176	A 0.01 176	A 0.02 176
62	A 0.01 67	A 0.01 67	A 0.01 67	A 0.01 67	A 0. 67	A 0. 67	A 0. 67	A 0. 67
63	A 0.02 84	A 0.02 84	A 0.02 84	A 0.02 84	A 0.03 84	A 0.02 84	A 0.01 84	A 0. 84
64	A 0.01 86	A 0.02 86	A 0.01 86	A 0.01 86	A 0.02 86	A 0.02 86	A 0. 86	A 0.02 86
65	A 0.02 92	A 0.02 96	A 0.02 96	A 0.02 96	A 0.02 96	A 0.02 96	A 0.01 96	A 0.02 96
66	B 0.01 291	B 0.01 291	B 0.01 291	B 0.01 291	B 0. 291	B 0.02 291	B 0.01 291	B 0. 291
67	B 0.01 93	B 0.01 93	B 0.01 93	B 0.01 93	B 0. 93	B 0.02 93	B 0.01 93	B 0. 93

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Table 18 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
68	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
69	A 0.01 28	A 0.01 28	A 0. 28	A 0.01 28	A 0.02 28	A 0. 28	A 0.01 28	A 0. 28
70	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
71	A 0. 15	A 0.01 15	A 0. 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15	A 0. 15
72	A 0.01 122	A 0.02 122	A 0.01 122	A 0.01 122	A 0.01 122	A 0. 122	A 0.01 122	A 0.02 122
73	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.02 47	A 0.02 47	A 0.01 47	A 0.02 47
74	A 0.01 88	A 0.01 88	A 0.01 88	A 0.01 88	A 0.01 88	A 0.02 88	A 0.01 88	A 0.02 88
75	A 0. 66	A 0. 66	A 0. 66	A 0. 66	A 0. 66	A 0. 66	A 0. 66	A 0. 66
76	A 0.01 110	A 0.01 110	A 0.01 110	A 0.01 110	A 0.02 110	A 0.01 110	A 0.01 110	A 0.02 110
77	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
78	A 0.01 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0. 61	A 0.02 61	A 0.01 61	A 0.02 61
79	A 0.02 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0. 80	A 0.01 80	A 0.01 80	A 0. 80
80	A 0.03 168	A 0.02 168	A 0.02 168	A 0.02 168	A 0.02 168	A 0.02 168	A 0.01 168	A 0.02 168
81	A 0.21 233	A 0.2 233	A 0.19 233	A 0.19 233	A 0.17 233	A 0.23 233	A 0.16 233	A 0.25 233
82	A 0.51 253	A 0.49 253	A 0.48 253	A 0.47 253	A 0.44 253	A 0.55 253	A 0.4 253	A 0.75 253
83	A 0.01 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0.02 50
84	A 0.01 34	A 0.01 34	A 0. 34	A 0. 34	A 0.01 34	A 0. 34	A 0. 34	A 0.02 34
85	A 0.01 34	A 0.01 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34
86	A 0.01 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0.02 61	A 0.02 61	A 0.01 61	A 0.02 61
87	A 0.01 47	A 0.01 47	A 0. 47	A 0.01 47	A 0.02 47	A 0.01 47	A 0. 47	A 0.02 47
88	A 0.01 41	A 0.01 41	A 0.01 41	A 0.01 41	A 0. 41	A 0.01 41	A 0. 41	A 0.02 41
89	A 0.01 68	A 0.01 68	A 0.01 68	A 0.01 68	A 0.02 68	A 0.01 68	A 0.01 68	A 0.02 68
90	A 0.01 43	A 0.01 43	A 0.01 43	A 0. 43	A 0.02 43	A 0.01 43	A 0. 43	A 0.02 43
91	A 0.01 26	A 0.01 26	A 0. 26	A 0.01 26	A 0. 26	A 0.01 26	A 0. 26	A 0. 26
92	A 0.01 63	A 0.01 63	A 0.01 63	A 0.01 63	A 0. 63	A 0.02 63	A 0. 63	A 0. 63
93	A 0.01 37	A 0.01 37	A 0.01 37	A 0. 37	A 0.02 37	A 0.01 37	A 0.01 37	A 0. 37
94	A 0.02 75	A 0.01 75	A 0.01 75	A 0.01 75	A 0.02 75	A 0.02 75	A 0.01 75	A 0. 75
95	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.02 36	A 0. 36	A 0. 36	A 0. 36

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
96	A 0.01 48	A 0.01 48	A 0.01 48	A 0.01 48	A 0. 48	A 0. 48	A 0. 48	A 0. 48
97	A 0.01 15	A 0.01 15	A 0. 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
98	A 0.01 30	A 0.01 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
99	A 0.01 30	A 0.01 30	A 0.01 30	A 0.01 30	A 0.02 30	A 0.01 30	A 0. 30	A 0. 30
100	A 0.01 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0.01 29	A 0. 29	A 0.02 29
101	A 0.01 35	A 0.01 35	A 0. 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0. 35
102	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.01 22	A 0. 22	A 0. 22
103	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22
104	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0.01 32	A 0. 32	A 0. 32
105	A 0.01 24	A 0.01 24	A 0. 24	A 0. 24	A 0.02 24	A 0. 24	A 0. 24	A 0. 24
106	A 0.01 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0.01 19	A 0. 19	A 0. 19
107	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
108	A 0.01 23	A 0.01 23	A 0. 23	A 0. 23	A 0. 23	A 0.01 23	A 0. 23	A 0. 23
109	A 0.01 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23	A 0. 23	A 0. 23	A 0.02 23
110	A 0.08 205	A 0.05 205	A 0.04 205	A 0.04 205	A 0.03 205	A 0.05 205	A 0.03 205	A 0.05 205
111	B 0.08 229	B 0.05 229	B 0.04 229	B 0.04 229	B 0.04 229	B 0.04 229	B 0.03 229	B 0.02 229
112	B 0.05 225	B 0.05 225	B 0.04 225	B 0.03 225	B 0.03 225	B 0.05 225	B 0.03 225	B 0.05 225
113	A 0.03 125	A 0.04 125	A 0.03 125	A 0.03 125	A 0.02 125	A 0.04 125	A 0.02 125	A 0.03 125
114	A 0.04 104	A 0.04 104	A 0.03 104	A 0.03 104	A 0.03 104	A 0.05 104	A 0.02 104	A 0.05 104
115	A 0.09 219	A 0.08 219	A 0.07 219	A 0.07 219	A 0.06 219	A 0.09 219	A 0.06 219	A 0.06 219
116	A 0.06 197	A 0.06 197	A 0.04 197	A 0.04 197	A 0.03 197	A 0.07 197	A 0.03 197	A 0.05 197
117	A 0.05 382	A 0.05 382	A 0.04 382	A 0.04 382	A 0.03 382	A 0.06 382	A 0.03 382	A 0.03 382
118	B 0.05 235	B 0.04 235	B 0.03 235	B 0.03 235	B 0.03 235	B 0.04 235	B 0.03 235	B 0.03 235
119	B 0.02 165	B 0.02 165	B 0.02 163	B 0.02 165	B 0.02 165	B 0.03 165	B 0.01 165	B 0.02 165
120	B 0.06 230	B 0.05 230	B 0.04 230	B 0.04 230	B 0.05 230	B 0.05 230	B 0.03 230	B 0.03 230
121	A 0.05 126	A 0.05 126	A 0.04 126	A 0.03 126	A 0.03 126	A 0.04 126	A 0.03 126	A 0.05 126
122	B 0.08 66	B 0.08 66	B 0.07 66	B 0.07 66	B 0.06 66	B 0.08 66	B 0.05 66	B 0.05 68
123	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 18 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
124	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
125	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0. 14	A 0.01 14	A 0. 14
126	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.01 36	A 0. 36	A 0.02 36
127	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15	A 0. 15
128	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25
129	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
130	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
131	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
132	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
133	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
134	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
135	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
136	A 0. 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16
137	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
138	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
139	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.02 47	A 0.02 47	A 0. 47	A 0.02 47
140	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
141	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
142	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
143	A 0.01 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
144	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
145	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
146	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
147	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
148	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
149	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
150	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
151	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 18 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
152	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
153	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
154	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
155	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
156	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
157	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
158	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
159	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
160	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
161	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
162	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
163	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
164	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
165	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
166	C 0.06 40	C 0.05 40	C 0.04 40	C 0.04 40	C 0.03 40	C 0.05 40	C 0.03 40	C 0.05 40
167	C 0.06 50	C 0.05 50	C 0.03 50	C 0.03 50	C 0.04 50	C 0.03 50	C 0.03 50	C 0.05 50
168	C 0.06 33	C 0.06 33	C 0.05 33	C 0.04 33	C 0.03 62	C 0.03 62	C 0.03 62	C 0.03 62
169	C 0.04 50	C 0.04 50	C 0.03 50	C 0.03 50	C 0.03 72	C 0.03 72	C 0.02 72	C 0.03 72
170	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
171	C 0.07 53	C 0.06 53	C 0.04 53	C 0.04 53	C 0.03 53	C 0.05 53	C 0.03 53	C 0.05 53
172	C 0.06 72	C 0.06 72	C 0.04 72	C 0.04 72	C 0.03 72	C 0.05 72	C 0.04 72	C 0.05 72
173	C 0.11 48	C 0.04 48	C 0.03 48	C 0.03 48	C 0.03 48	C 0.03 48	C 0.02 48	C 0.05 48
174	C 0.05 43	C 0.04 43	C 0.03 43	C 0.03 43	C 0.03 43	C 0.03 43	C 0.02 43	C 0.03 43
175	C 0.07 53	C 0.08 53	C 0.05 53	C 0.05 53	C 0.05 82	C 0.05 82	C 0.04 82	C 0.05 82
176	C 0.04 40	C 0.04 40	C 0.03 40	C 0.03 40	C 0.03 40	C 0.03 40	C 0.02 40	C 0.03 40
177	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
178	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
179	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 18 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
180	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
181	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
182	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
183	A 0.01 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0.01 31	A 0. 31	A 0. 31
184	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
185	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
186	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
187	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
188	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
189	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
190	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
191	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
192	A 0.01 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0.02 21	A 0. 21	A 0. 21
193	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
194	A 0.01 42	A 0.01 42	A 0. 42	A 0.01 42	A 0. 42	A 0.02 42	A 0.01 42	A 0.02 42
195	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
196	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
197	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
198	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
199	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
200	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
201	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
202	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
203	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
204	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
205	A 0.01 132	A 0.01 132	A 0.01 132	A 0.01 132	A 0. 132	A 0. 132	A 0.01 132	A 0.02 132
206	A 0.01 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0. 42	A 0.02 42	A 0.01 42	A 0.02 42
207	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 18 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
208	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
209	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
210	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
211	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
212	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
213	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
214	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.17 1_Algebraic_functions\1.1Binomialproducts\1.1.2Quadratic\1.1.2.y(cx)^mPq(x)(a+bx^2)^p

Table 19: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 94	A 0.01 94	A 0.01 94	A 0.01 94	A 0.01 94	A 0. 94	A 0.01 94	A 0.02 94
2	A 0.02 97	A 0.02 97	A 0.01 97	A 0.01 97	A 0.02 97	A 0. 97	A 0.01 97	A 0.02 97
3	A 0.02 134	A 0.02 134	A 0.01 134	A 0.01 134	A 0.02 134	A 0.02 134	A 0.01 134	A 0.02 134
4	A 0.01 113	A 0.01 113	A 0.01 113	A 0.01 113	A 0.02 113	A 0. 113	A 0.01 113	A 0.02 113
5	A 0.02 126	A 0.02 126	A 0.01 126	A 0.01 126	A 0.02 126	A 0.02 126	A 0.01 126	A 0.03 126
6	A 0.02 132	A 0.02 132	A 0.01 132	A 0.01 132	A 0.02 132	A 0.02 132	A 0.01 132	A 0.02 132
7	A 0.01 138	A 0.01 138	A 0.01 138	A 0.01 138	A 0. 138	A 0. 138	A 0.01 138	A 0. 138
8	A 0.01 181	A 0.02 181	A 0.01 181	A 0.01 181	A 0. 181	A 0.02 181	A 0.01 181	A 0. 181
9	A 0.02 68	A 0.02 68	A 0.01 68	A 0.01 68	A 0.02 68	A 0.02 68	A 0.01 68	A 0.02 68
10	A 0.01 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0. 72	A 0.02 72	A 0.01 72	A 0.02 72
11	A 0.01 41	A 0.01 41	A 0.01 41	A 0.01 41	A 0.02 41	A 0. 41	A 0. 41	A 0. 41
12	A 0.01 92	A 0.01 92	A 0.01 92	A 0.01 92	A 0.02 92	A 0.02 92	A 0.01 92	A 0.02 92
13	A 0.08 265	A 0.07 265	A 0.07 265	A 0.07 265	A 0.06 265	A 0.08 265	A 0.05 265	A 0.08 265
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

Continued on next page

Table 19 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
15	A 0.02 54	A 0. 54	A 0. 54	A 0. 54	A 0.02 54	A 0. 54	A 0. 54	A 0. 54
16	A 0. 102	A 0. 102	A 0. 102	A 0. 102	A 0. 102	A 0. 102	A 0. 102	A 0. 102
17	A 0. 99	A 0. 99	A 0. 99	A 0. 99	A 0. 99	A 0.02 99	A 0. 99	A 0. 99
18	A 0. 150	A 0. 150	A 0. 150	A 0. 150	A 0. 150	A 0. 150	A 0. 150	A 0. 150
19	A 0.01 176	A 0.01 176	A 0.01 176	A 0.01 176	A 0. 176	A 0.01 176	A 0. 176	A 0.02 176
20	A 0.01 152	A 0.01 152	A 0.01 152	A 0.01 152	A 0. 152	A 0. 152	A 0. 152	A 0. 152
21	A 0.01 154	A 0.01 154	A 0.01 154	A 0.01 154	A 0.02 154	A 0.02 154	A 0. 154	A 0.02 154
22	A 0.02 100	A 0.01 119	A 0.01 119	A 0.01 119	A 0.02 119	A 0.01 119	A 0. 119	A 0. 119
23	A 0.02 110	A 0.01 159	A 0.01 159	A 0.01 159	A 0. 159	A 0.02 159	A 0.01 159	A 0.02 159
24	A 0.01 111	A 0.01 158	A 0.01 158	A 0.01 158	A 0. 158	A 0.02 158	A 0. 158	A 0.02 158
25	A 0.02 195	A 0.02 184	A 0.02 184	A 0.02 184	A 0.02 184	A 0.02 184	A 0.01 184	A 0.02 184
26	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15	A 0. 15	A 0.01 15	A 0. 15
27	A 0. 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
28	A 0.01 278	A 0.01 278	A 0. 278	A 0.01 278	A 0.02 278	A 0. 278	A 0. 278	A 0.02 278
29	A 0.03 401	A 0.03 393	A 0.02 393	A 0.02 393	A 0.01 393	A 0.03 393	A 0.01 393	A 0.02 393
30	A 0.01 145	A 0.01 145	A 0.01 145	A 0.01 145	A 0. 145	A 0.02 145	A 0.01 145	A 0.02 145
31	A 0.02 238	A 0.02 238	A 0.02 238	A 0.02 238	A 0.02 238	A 0.02 238	A 0.02 238	A 0.02 238
32	A 0.03 320	A 0.03 320	A 0.02 320	A 0.02 320	A 0.03 320	A 0.01 320	A 0.02 320	A 0.03 320
33	A 0.03 284	A 0.03 284	A 0.02 284	A 0.02 284	A 0.03 284	A 0.02 284	A 0.02 284	A 0.03 284
34	A 0.02 136	A 0.02 136	A 0.02 136	A 0.01 136	A 0.02 136	A 0.02 136	A 0.01 136	A 0.02 136
35	A 0.01 253	A 0.01 253	A 0.01 253	A 0.01 253	A 0.01 253	A 0. 253	A 0.01 253	A 0. 253

2.18 1_Algebraic_functions\1.1Binomialproducts\1.1.3General\1.1.3.2(cx)^m(a+bxⁿ)^p

Table 20: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.01 13	A 0. 13
2	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
3	A 0.02 13	A 0. 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13
4	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
5	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
6	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
7	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13
8	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0.02 10	A 0. 10	A 0. 10
9	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13	A 0. 13
10	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
11	A 0.08 13	A 0.06 13	A 0.38 13	A 0.05 13	A 0.03 13	A 0.03 13	A 0.01 13	A 0.02 13
12	A 0. 9	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0.02 9
13	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0.02 10	A 0.02 10	A 0. 10	A 0.02 10
14	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13
15	A 0. 10	A 0.01 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10	A 0.02 10
16	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0.02 13
17	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0.02 13
18	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0.02 20
19	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
20	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
21	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
22	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
23	A 0. 11	A 0.01 11	A 0. 11	A 0. 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11
24	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
25	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0. 10	A 0. 10	A 0.03 10	A 0. 10
26	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18	A 0. 18	A 0. 18
27	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11

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Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11	A 0. 11
29	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
30	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
31	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
32	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
33	A 0. 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
34	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
35	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
36	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
37	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
38	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
39	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
40	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
43	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
44	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
45	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
46	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
47	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
48	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.02 25	A 0.02 25	A 0. 25	A 0. 25
49	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
50	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0.02 36
51	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
52	A 0.02 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58	A 0. 58	A 0. 58	A 0. 58
53	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57
54	A 0.01 56	A 0.01 56	A 0.01 56	A 0.01 56	A 0.02 56	A 0.01 56	A 0. 56	A 0. 56
55	A 0.01 56	A 0.01 56	A 0.01 56	A 0.01 56	A 0.02 56	A 0.02 56	A 0. 56	A 0. 56

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Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	A 0. 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91	A 0.02 91
57	A 0.01 91	A 0.01 91	A 0.01 91	A 0.01 91	A 0.02 91	A 0.02 91	A 0. 91	A 0. 91
58	A 0.01 102	A 0.01 102	A 0. 102	A 0.01 102	A 0. 102	A 0. 102	A 0. 102	A 0.02 102
59	A 0. 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91
60	A 0.01 99	A 0.01 99	A 0.01 99	A 0.01 99	A 0. 99	A 0. 99	A 0. 99	A 0. 99
61	A 0.01 100	A 0.02 100	A 0.01 100	A 0.01 100	A 0.02 100	A 0.02 100	A 0. 100	A 0. 100
62	A 0.01 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0.02 33	A 0.02 33	A 0. 33	A 0.02 33
63	A 0.01 108	A 0.01 108	A 0.01 108	A 0.01 108	A 0. 108	A 0.02 108	A 0. 108	A 0. 108
64	A 0. 106	A 0. 106	A 0. 106	A 0. 106	A 0. 106	A 0. 106	A 0. 106	A 0. 106
65	A 0.02 35	A 0.02 35	A 0.02 35	A 0.02 35	A 0.02 35	A 0.02 35	A 0.01 35	A 0.02 35
66	A 0.01 115	A 0.02 115	A 0.02 115	A 0.02 115	A 0.02 115	A 0.02 115	A 0. 115	A 0. 115
67	A 0.01 119	A 0.02 126	A 0.01 126	A 0.01 126	A 0. 126	A 0.02 126	A 0. 126	A 0. 126
68	A 0.02 127	A 0.01 137	A 0.01 137	A 0.01 137	A 0.02 137	A 0.02 137	A 0. 137	A 0.02 137
69	A 0.02 125	A 0.01 133	A 0.01 133	A 0.01 133	A 0. 133	A 0.02 133	A 0. 133	A 0. 133
70	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
71	A 0.01 105	A 0.01 105	A 0. 105	A 0.01 105	A 0. 105	A 0. 105	A 0. 105	A 0. 105
72	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.02 36	A 0.01 36	A 0.02 36
73	A 0.11 36	A 0.1 36	A 0.07 36	A 0.07 36	A 0.06 36	A 0.08 36	A 0.07 36	A 0.06 36
74	A 0.02 337	A 0.03 337	A 0.02 337	A 0.02 337	A 0.02 337	A 0.06 337	A 0.02 337	A 0.02 337
75	A 0.02 317	A 0.03 317	A 0.02 317	A 0.02 317	A 0.01 317	A 0.06 317	A 0.01 317	A 0.02 317
76	A 0.03 295	A 0.04 295	A 0.03 295	A 0.02 295	A 0.02 295	A 0.06 295	A 0.02 295	A 0.03 295
77	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.02 25	A 0. 25	A 0. 25	A 0. 25
78	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0.02 36
79	A 0.01 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15
80	A 0.02 301	A 0.04 301	A 0.02 301	A 0.02 301	A 0.02 301	A 0.06 301	A 0.01 301	A 0.03 301
81	A 0.04 39	A 0.04 39	A 0.02 39	A 0.03 39	A 0.03 39	A 0.06 39	A 0.02 39	A 0.02 39
82	A 0.03 57	A 0.04 57	A 0.03 57	A 0.03 57	A 0.02 57	A 0.08 57	A 0.02 57	A 0.03 57
83	A 0.03 457	A 0.03 457	A 0.02 457	A 0.02 457	A 0.03 457	A 0.08 457	A 0.02 457	A 0.02 457

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Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
84	A 0.04 48	A 0.03 48	A 0.02 48	A 0.03 48	A 0.03 48	A 0.03 48	A 0.02 48	A 0.03 48
85	A 0. 116	A 0. 116	A 0. 116	A 0.01 116	A 0.02 116	A 0. 116	A 0.01 116	A 0. 116
86	A 0.03 141	A 0.03 141	A 0.02 141	A 0.02 141	A 0.03 141	A 0.03 141	A 0.01 141	A 0.02 141
87	A 0.03 186	A 0.02 186	A 0.02 186	A 0.02 186	A 0.02 186	A 0.03 186	A 0.01 186	A 0.02 186
88	A 0.02 173	A 0.02 173	A 0.02 173	A 0.01 173	A 0.01 173	A 0.03 173	A 0.01 173	A 0.02 173
89	A 0.03 185	A 0.02 185	A 0.02 185	A 0.02 185	A 0.03 185	A 0.03 185	A 0.01 185	A 0.02 185
90	A 0.01 21	A 0.01 21	A 0.01 21	A 0. 21	A 0. 21	A 0.02 21	A 0. 21	A 0.02 21
91	A 0.03 134	A 0.03 134	A 0.02 134	A 0.02 134	A 0.02 134	A 0.02 134	A 0.02 134	A 0.02 134
92	A 0. 158	A 0. 158	A 0. 158	A 0.02 158	A 0.02 158	A 0. 158	A 0.01 158	A 0. 158
93	A 0.04 11	A 0.03 11	A 0.02 11	A 0.02 11	A 0.02 11	A 0.02 11	A 0.01 11	A 0.03 11
94	A 0.03 139	A 0.02 139	A 0.02 139	A 0.02 139	A 0.02 139	A 0.03 139	A 0.01 139	A 0.02 139
95	A 0.03 129	A 0.02 129	A 0.02 129	A 0.02 129	A 0.02 129	A 0.03 129	A 0.01 129	A 0.02 129
96	A 0.04 13	A 0.03 13	A 0.02 13	A 0.02 13	A 0.02 13	A 0.02 13	A 0.01 13	A 0.02 13
97	A 0.03 134	A 0.03 134	A 0.02 134	A 0.02 134	A 0.02 134	A 0.03 134	A 0.01 134	A 0.03 134
98	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47	A 0. 47	A 0.01 47	A 0.02 47
99	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
100	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
101	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
102	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
103	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0.01 36	A 0.02 36
104	A 0.01 18	A 0. 18	A 0.01 18	A 0. 18	A 0. 18	A 0.02 18	A 0. 18	A 0. 18
105	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
106	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
107	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
108	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
109	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
110	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
111	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
112	A 0. 11	A 0.01 11	A 0. 11	A 0.01 11	A 0.02 11	A 0. 11	A 0. 11	A 0. 11
113	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0.02 14	A 0. 14	A 0. 14	A 0. 14
114	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
115	B 0. 36	B 0. 36	B 0. 36	B 0. 36	B 0. 36	B 0. 36	B 0. 36	B 0. 36
116	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
117	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0.02 35	A 0.02 35	A 0. 35	A 0. 35
118	A 0.01 19	A 0.01 19	A 0. 19	A 0. 19	A 0.02 19	A 0. 19	A 0. 19	A 0. 19
119	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.02 21	A 0. 21	A 0. 21	A 0.02 21
120	A 0.02 41	A 0.02 41	A 0.01 41	A 0.01 41	A 0.02 41	A 0. 41	A 0. 41	A 0. 41
121	A 0.01 40	A 0.02 40	A 0.02 40	A 0.01 40	A 0.02 40	A 0.02 40	A 0. 40	A 0.02 40
122	A 0.02 35	A 0.02 35	A 0.02 35	A 0.01 35	A 0. 35	A 0.02 35	A 0. 35	A 0. 35
123	A 0.02 70	A 0.03 68	A 0.02 68	A 0.03 68	A 0.02 68	A 0.02 68	A 0.01 68	A 0.02 68
124	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
125	A 0.01 111	A 0.01 111	A 0.01 111	A 0.01 111	A 0. 111	A 0. 111	A 0. 111	A 0. 111
126	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
127	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0.02 27	A 0.02 27	A 0. 27	A 0.02 27
128	A 0.01 27	A 0.01 27	A 0. 27	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27
129	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0.02 27	A 0.02 27	A 0.01 27	A 0.02 27
130	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0.02 27	A 0. 27	A 0.01 27	A 0. 27
131	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0.02 27	A 0. 27	A 0. 27	A 0.02 27
132	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0.02 38	A 0. 38	A 0.01 38	A 0. 38
133	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.02 38	A 0.01 38	A 0.02 38
134	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.01 38	A 0. 38
135	C 0.04 29	C 0.03 29	C 0.03 30	C 0.02 30	C 0.03 30	C 0.03 30	C 0.01 30	C 0.02 30
136	C 0.03 38	C 0.03 38	C 0.03 43	C 0.02 43	C 0.02 43	C 0.03 43	C 0.01 43	C 0.02 43
137	C 0.04 50	C 0.04 50	C 0.04 51	C 0.03 51	C 0.03 51	C 0.03 51	C 0.01 51	C 0.03 51
138	C 0.05 61	C 0.07 87	C 0.06 127	C 0.06 127	C 0.05 127	C 0.08 127	C 0.02 127	C 0.09 127
139	C 0.04 62	C 0.05 62	C 0.04 63	C 0.04 63	C 0.05 63	C 0.05 63	C 0.02 63	C 0.06 63

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Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
140	A 0.02 63	A 0.02 63	A 0.01 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63
141	A 0.02 85	A 0.03 85	A 0.02 85	A 0.02 85	A 0.02 85	A 0.02 85	A 0.01 85	A 0. 85
142	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.01 63	A 0.02 63
143	A 0.01 40	A 0.02 40	A 0.01 40	A 0.01 40	A 0.02 40	A 0.02 40	A 0.01 40	A 0.02 40
144	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0.01 25	A 0. 25
145	A 0.01 15	A 0.01 15	A 0. 15	A 0. 15	A 0.02 15	A 0. 15	A 0. 15	A 0. 15
146	A 0.03 57	A 0.03 57	A 0.02 57	A 0.02 57	A 0.02 57	A 0.02 57	A 0.02 57	A 0.03 57
147	A 0.02 63	A 0.03 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.03 63	A 0.02 63	A 0.02 63
148	A 0.01 59	A 0.01 59	A 0.01 59	A 0.01 59	A 0.02 59	A 0. 59	A 0.01 59	A 0.02 59
149	A 0.01 10	A 0.01 10	A 0. 10	A 0. 10	A 0.02 10	A 0.02 10	A 0. 10	A 0. 10
150	B 0.01 45	B 0.01 45	B 0.01 45	B 0. 45	B 0. 45	B 0.02 45	B 0. 45	B 0.02 45
151	A 0.01 26	A 0.01 26	A 0.01 26	A 0. 26	A 0.02 26	A 0. 26	A 0. 26	A 0. 26
152	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0. 37	A 0.01 37	A 0. 37	A 0.02 37
153	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16
154	A 0.02 50	A 0.02 50	A 0.04 50	A 0.02 50	A 0.02 50	A 0.02 50	A 0.01 50	A 0.02 50
155	A 0.02 24	A 0.02 24	A 0.01 24	A 0.01 24	A 0. 24	A 0.02 24	A 0.01 24	A 0.02 24
156	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
157	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
158	A 0.03 86	A 0.02 86	A 0.01 86	A 0.02 86	A 0.02 86	A 0.02 86	A 0.01 86	A 0.02 86
159	A 0.01 107	A 0.02 107	A 0.01 107	A 0.01 107	A 0. 107	A 0.02 107	A 0.01 107	A 0.02 107
160	A 0.01 88	A 0.01 88	A 0.01 88	A 0.01 88	A 0.02 88	A 0. 88	A 0.01 88	A 0.02 88
161	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.02 36	A 0.01 36	A 0.02 36
162	A 0.02 42	A 0.02 42	A 0.02 42	A 0.02 42	A 0. 42	A 0.02 42	A 0.01 42	A 0.02 42
163	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
164	C 0.05 137	C 0.04 137	C 0.02 137	C 0.02 137	C 0.02 137	C 0.03 137	C 0.02 137	C 0.02 137
165	C 0.03 157	C 0.03 157	C 0.03 157	C 0.02 157	C 0.03 157	C 0.05 157	C 0.02 157	C 0.03 157
166	A 0.01 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0.02 26
167	A 0.01 33	A 0.01 33	A 0. 33	A 0. 33	A 0. 33	A 0.02 33	A 0. 33	A 0.02 33

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Table 20 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
168	A	0.01	68	A	0.02	68	A	0.01	68	A	0.01	68	A	0.	68	A	0.02	68	A	0.01	68	A	0.02	68
169	B	0.03	68	B	0.03	68	B	0.02	68	B	0.02	68	B	0.03	68	B	0.03	68	B	0.02	68	B	0.02	68
170	B	0.02	76	B	0.03	76	B	0.02	76	B	0.02	76	B	0.03	76	B	0.02	76	B	0.02	76	B	0.02	76
171	A	0.02	68	A	0.02	68	A	0.02	68	A	0.01	68	A	0.02	68	A	0.02	68	A	0.01	68	A	0.	68
172	A	0.03	82	A	0.03	82	A	0.02	82	A	0.02	82	A	0.01	82	A	0.02	82	A	0.02	82	A	0.03	82
173	A	0.01	15	A	0.01	15	A	0.	15	A	0.	15	A	0.	15	A	0.02	15	A	0.	15	A	0.02	15
174	A	0.01	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10	A	0.02	10	A	0.	10	A	0.02	10
175	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.01	7	A	0.01	7	A	0.	7
176	A	0.	20	A	0.01	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
177	C	0.01	84	C	0.01	84	C	0.01	84	C	0.01	84	C	0.	84	C	0.02	84	C	0.01	84	C	0.02	84
178	C	0.02	74	C	0.02	74	C	0.01	74	C	0.01	74	C	0.02	74	C	0.02	74	C	0.01	74	C	0.02	74
179	C	0.02	86	C	0.02	86	C	0.02	86	C	0.02	86	C	0.01	86	C	0.02	86	C	0.01	86	C	0.02	86
180	C	0.02	107	C	0.02	107	C	0.01	107	C	0.01	107	C	0.02	107	C	0.02	107	C	0.01	107	C	0.02	107
181	A	0.01	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
182	A	0.02	32	A	0.02	32	A	0.02	32	A	0.02	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.02	32
183	A	0.01	20	A	0.02	20	A	0.01	20	A	0.01	20	A	0.02	20	A	0.02	20	A	0.01	20	A	0.02	20
184	C	0.01	94	C	0.01	94	C	0.01	94	C	0.01	94	C	0.	94	C	0.02	94	C	0.01	94	C	0.02	94
185	C	0.01	72	C	0.01	72	C	0.01	72	C	0.01	72	C	0.02	72	C	0.02	72	C	0.	72	C	0.02	72
186	C	0.02	107	C	0.02	107	C	0.02	107	C	0.01	107	C	0.02	107	C	0.01	107	C	0.01	107	C	0.02	107
187	C	0.01	82	C	0.02	82	C	0.01	82	C	0.01	82	C	0.02	82	C	0.02	82	C	0.01	82	C	0.02	82
188	A	0.01	9	A	0.02	9	A	0.02	9	A	0.01	9	A	0.	9	A	0.02	9	A	0.01	9	A	0.02	9
189	C	0.01	45	C	0.01	45	C	0.01	45	C	0.01	45	C	0.01	45	C	0.	45	C	0.01	45	C	0.02	45
190	C	0.02	57	C	0.01	57	C	0.01	57	C	0.01	57	C	0.02	57	C	0.02	57	C	0.01	57	C	0.02	57
191	C	0.02	44	C	0.01	44	C	0.01	44	C	0.01	44	C	0.	44	C	0.02	44	C	0.	44	C	0.02	44
192	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.02	36	A	0.	36	A	0.	36	A	0.	36
193	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
194	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.	39	A	0.02	39	A	0.01	39	A	0.02	39
195	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25

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Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
196	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
197	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
198	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
199	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
200	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
201	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
202	A 0.01 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0. 50	A 0.02 50	A 0.01 50	A 0. 50
203	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
204	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58	A 0. 58	A 0.01 58	A 0.02 58
205	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
206	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
207	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
208	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
209	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
210	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58	A 0. 58	A 0.01 58	A 0. 58
211	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47	A 0.02 47	A 0.01 47	A 0. 47
212	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
213	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
214	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
215	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
216	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
217	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58	A 0.02 58	A 0.01 58	A 0. 58
218	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.02 47	A 0. 47	A 0.01 47	A 0. 47
219	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24	A 0.02 24	A 0.02 24	A 0. 24	A 0.02 24
220	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
221	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
222	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
223	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 20 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
224	A	0.01	50	A	0.01	50	A	0.01	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.02	50
225	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
226	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
227	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
228	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
229	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
230	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
231	A	0.01	19	A	0.01	19	A	0.	19	A	0.	19	A	0.02	19	A	0.	19	A	0.	19	A	0.	19
232	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
233	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
234	A	0.01	26	A	0.01	26	A	0.	26	A	0.	26	A	0.02	26	A	0.02	26	A	0.	26	A	0.02	26
235	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
236	A	0.01	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.02	19
237	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
238	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
239	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
240	A	0.01	25	A	0.01	25	A	0.	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
241	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
242	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
243	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
244	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
245	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
246	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
247	A	0.	46	A	0.01	46	A	0.	46	A	0.	46	A	0.	46	A	0.01	46	A	0.	46	A	0.	46
248	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
249	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.	47	A	0.	47
250	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
251	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.02	23	A	0.	23	A	0.	23	A	0.	23

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Table 20 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
252	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
253	A	0.05	156	A	0.06	156	A	0.05	156	A	0.06	156	A	0.05	156	A	0.05	156	A	0.03	156	A	0.03	148
254	A	0.02	216	A	0.04	216	A	0.03	216	A	0.03	216	A	0.03	216	A	0.04	216	A	0.01	216	A	0.03	207
255	A	0.03	161	A	0.05	161	A	0.04	161	A	0.04	161	A	0.03	161	A	0.05	161	A	0.01	161	A	0.03	153
256	A	0.01	39	A	0.01	39	A	0.	39	A	0.01	39	A	0.	39	A	0.02	39	A	0.	39	A	0.02	39
257	A	0.01	105	A	0.01	105	A	0.01	105	A	0.01	105	A	0.02	105	A	0.	105	A	0.	105	A	0.	105
258	A	0.02	40	A	0.02	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.	40	A	0.01	40	A	0.	40
259	A	0.1	189	B	0.65	373	B	0.5	373	B	0.51	373	B	0.45	382	B	0.55	373	F	0	0	F	0	0
260	A	0.01	123	A	0.02	123	A	0.01	123	A	0.02	123	A	0.02	123	A	0.02	123	F	0	0	F	0	0
261	B	0.41	343	B	0.52	343	B	0.37	343	B	0.37	343	B	0.34	352	B	0.4	343	F	0	0	F	0	0
262	A	0.	69	A	0.	69	A	0.	69	A	0.02	69	A	0.02	69	A	0.	69	A	0.01	69	A	0.	69
263	A	0.	66	A	0.	66	A	0.	66	A	0.01	66	A	0.	66	A	0.	66	A	0.01	66	A	0.	66
264	A	0.01	71	A	0.03	71	A	0.02	71	A	0.02	71	A	0.02	71	A	0.02	71	A	0.01	71	A	0.	71
265	B	0.01	39	B	0.02	39	B	0.02	39	B	0.02	39	B	0.02	39	B	0.02	39	B	0.01	39	B	0.02	39
266	B	0.02	41	B	0.02	41	B	0.02	41	B	0.02	41	B	0.02	41	B	0.02	41	B	0.01	41	B	0.	41
267	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
268	A	0.04	61	A	0.05	61	A	0.04	61	A	0.04	61	A	0.05	61	A	0.03	61	A	0.02	61	A	0.03	62
269	C	0.04	162	C	0.05	162	C	0.04	144	C	0.04	144	C	0.03	144	C	0.05	144	C	0.02	144	C	0.05	144
270	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.02	27	A	0.	27	A	0.01	27	A	0.	27
271	A	0.01	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
272	A	0.05	30	A	0.05	30	A	0.03	30	A	0.03	30	A	0.03	30	A	0.03	30	A	0.03	30	A	0.03	30
273	C	0.04	20	C	0.04	20	C	0.03	20	C	0.03	20	C	0.02	20	C	0.03	20	C	0.02	20	C	0.03	20
274	A	0.04	46	A	0.04	46	A	0.03	46	A	0.03	46	A	0.03	46	A	0.03	46	A	0.02	46	A	0.02	46
275	A	0.04	25	A	0.04	25	A	0.03	25	A	0.03	25	A	0.02	25	A	0.03	25	A	0.02	25	A	0.05	25
276	A	0.	35	A	0.01	35	A	0.	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35	A	0.02	35
277	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
278	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21
279	C	0.35	29	C	0.3	29	C	0.31	30	C	0.22	30	C	0.22	30	C	0.29	30	C	0.	30	C	0.	30

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
280	C 0.02 89	C 0.02 89	C 0.02 44	C 0.02 44	C 0.02 44	C 0.02 44	C 0.01 44	C 0.02 44
281	A 0.01 147	A 0.02 147	A 0.01 147	A 0.01 147	A 0.02 147	A 0. 147	A 0. 147	A 0.02 147
282	C 0.02 34	C 0.03 34	C 0.02 38	C 0.02 38	C 0.02 38	C 0.02 38	C 0. 38	C 0. 38
283	B 0.01 28	B 0.01 28	B 0.01 28	B 0.01 28	B 0.02 28	B 0. 28	B 0. 28	B 0.02 28
284	B 0.02 35	B 0.03 35	B 0.03 35	B 0.03 35	B 0.03 35	B 0.03 35	B 0.01 35	B 0. 35
285	A 0. 74	A 0. 74	A 0. 74	A 0. 74	A 0.02 74	A 0. 74	A 0. 74	A 0. 74
286	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
287	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13
288	A 0.01 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0. 71	A 0. 71	A 0. 71	A 0. 71
289	C 0.01 28	C 0.02 28	C 0.01 30	C 0.01 30	C 0. 30	C 0.02 30	C 0.01 30	C 0.02 30
290	A 0.05 27	A 0.05 27	A 0.03 27	A 0.03 27	A 0.03 27	A 0.03 27	A 0.02 27	A 0.02 27
291	A 0.01 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
292	A 0.04 42	A 0.04 42	A 0.03 42	A 0.03 42	A 0.03 42	A 0.03 42	A 0.02 42	A 0.03 42
293	C 0.07 30	C 0.05 30	C 0.03 30	C 0.03 30	C 0.03 30	C 0.03 30	C 0.02 30	C 0.05 30
294	C 0.06 28	C 0.05 28	C 0.04 28	C 0.04 28	C 0.05 28	C 0.03 28	C 0.02 28	C 0.03 28
295	B 0.01 18	B 0.02 18	B 0.01 18	B 0.01 18	B 0. 18	B 0. 18	B 0. 18	B 0. 18
296	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14
297	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
298	A 0.01 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.02 21	A 0. 21	A 0. 21	A 0. 21
299	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.02 25	A 0.02 25	A 0. 25	A 0. 25
300	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0.02 36	A 0. 36	A 0. 36	A 0. 36
301	A 0.01 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0. 34	A 0. 34	A 0. 34	A 0.02 34
302	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.02 36	A 0. 36	A 0. 36
303	B 0. 91	B 0. 91	B 0. 91	B 0. 91	B 0. 91	B 0. 91	B 0. 91	B 0. 91
304	A 0.01 88	A 0.02 88	A 0.01 88	A 0.01 88	A 0. 88	A 0.01 88	A 0. 88	A 0.02 88
305	A 0.01 87	A 0.01 87	A 0.01 87	A 0.01 87	A 0. 87	A 0. 87	A 0. 87	A 0. 87
306	A 0. 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30
307	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
308	A 0.02 43	A 0.02 43	A 0.01 43	A 0.01 43	A 0. 43	A 0.02 43	A 0.01 43	A 0. 43
309	A 0.01 83	A 0.01 83	A 0.01 83	A 0.01 83	A 0.02 83	A 0.02 83	A 0. 83	A 0. 83
310	A 0.01 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0.02 72	A 0.02 72	A 0. 72	A 0. 72
311	A 0. 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
312	A 0.01 65	A 0.01 65	A 0.01 65	A 0.01 65	A 0. 65	A 0.02 65	A 0. 65	A 0.02 65
313	A 0.02 54	A 0.02 54	A 0.01 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0.01 54	A 0.02 54
314	A 0.02 48	A 0.02 48	A 0.02 48	A 0.02 48	A 0.02 48	A 0.03 48	A 0.01 48	A 0. 48
315	A 0.02 72	A 0.03 72	A 0.02 72	A 0.02 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0. 72
316	A 0.02 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0. 79	A 0.02 79	A 0.01 79	A 0. 79
317	A 0.02 50	A 0.02 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0.02 54	A 0.01 54	A 0.02 54
318	A 0.02 115	A 0.02 115	A 0.01 115	A 0.01 115	A 0. 115	A 0.02 115	A 0.01 115	A 0. 115
319	A 0.01 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0.02 55	A 0. 55	A 0.02 55
320	A 0.02 137	A 0.02 137	A 0.01 137	A 0.01 137	A 0. 137	A 0.02 137	A 0.01 137	A 0.02 137
321	A 0.01 115	A 0.02 115	A 0.01 115	A 0.01 115	A 0.02 115	A 0.02 115	A 0. 115	A 0. 115
322	A 0.01 95	A 0.02 95	A 0.01 95	A 0.01 95	A 0.02 95	A 0.02 95	A 0. 95	A 0.02 95
323	A 0.01 25	A 0.01 25	A 0. 25	A 0.01 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
324	A 0.01 33	A 0.01 33	A 0. 33	A 0.01 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33
325	A 0.02 112	A 0.02 112	A 0.01 112	A 0.01 112	A 0. 112	A 0.02 112	A 0.01 112	A 0. 112
326	B 0.02 137	B 0.02 137	B 0.01 137	B 0.01 137	B 0.02 137	B 0.02 137	B 0.01 137	B 0.02 137
327	A 0.01 33	A 0.01 33	A 0. 33	A 0. 33	A 0. 33	A 0.02 33	A 0. 33	A 0.02 33
328	A 0.01 66	A 0.01 66	A 0.01 66	A 0.01 66	A 0. 66	A 0. 66	A 0. 66	A 0. 66
329	A 0.02 188	A 0.02 188	A 0.01 188	A 0.01 188	A 0.02 188	A 0.02 188	A 0.01 188	A 0.02 188
330	A 0.01 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0. 55	A 0. 55	A 0. 55	A 0.02 55
331	A 0.02 66	A 0.01 66	A 0.01 66	A 0.01 66	A 0.02 66	A 0.02 66	A 0. 66	A 0. 66
332	B 0.02 198	B 0.02 198	B 0.01 201	B 0.01 198	B 0.02 198	B 0.02 198	B 0.01 198	B 0. 198
333	B 0.03 279	B 0.03 279	B 0.02 279	B 0.02 279	B 0.02 279	B 0.02 279	B 0.01 279	B 0. 279
334	A 0.02 44	A 0.01 44	A 0. 44	A 0.01 44	A 0. 44	A 0. 44	A 0. 44	A 0. 44
335	A 0.01 66	A 0.01 66	A 0.01 66	A 0.01 66	A 0. 66	A 0.02 66	A 0.01 66	A 0.02 66

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
336	A 0.03 70	A 0.03 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.03 70	A 0.01 70	A 0.02 70
337	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0.02 25
338	A 0.03 110	A 0.03 110	A 0.02 110	A 0.02 110	A 0.03 110	A 0.03 110	A 0.01 110	A 0.02 110
339	A 0.01 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0. 55	A 0. 55	A 0.01 55	A 0.02 55
340	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
341	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
342	A 0.02 74	A 0.03 74	A 0.02 74	A 0.02 74	A 0.02 74	A 0.02 74	A 0.01 74	A 0.02 74
343	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0.02 32	A 0. 32	A 0. 32
344	A 0.02 53	A 0.03 52	A 0.02 52	A 0.02 53	A 0.02 52	A 0.03 52	A 0.01 53	A 0.02 53
345	A 0.03 78	A 0.04 78	A 0.03 78	A 0.02 78	A 0.02 78	A 0.03 78	A 0.01 78	A 0.02 78
346	A 0.03 89	A 0.04 89	A 0.03 89	A 0.03 89	A 0.03 89	A 0.03 89	A 0.01 89	A 0.03 89
347	A 0.01 77	A 0.01 77	A 0.01 77	A 0.01 77	A 0.02 77	A 0.02 77	A 0.01 77	A 0.02 77
348	A 0.01 66	A 0.01 66	A 0.01 66	A 0.01 66	A 0. 66	A 0.02 66	A 0. 66	A 0. 66
349	A 0.01 54	A 0.01 54	A 0.01 54	A 0.01 54	A 0.02 54	A 0.02 54	A 0.01 54	A 0. 54
350	A 0.01 44	A 0.01 44	A 0.01 44	A 0.01 44	A 0. 44	A 0.02 44	A 0.01 44	A 0.02 44
351	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
352	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
353	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
354	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
355	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
356	A 0.01 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
357	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
358	A 0.01 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35
359	A 0.01 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0. 33	A 0.02 33	A 0. 33	A 0. 33
360	A 0.01 36	A 0.01 36	A 0. 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
361	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
362	A 0.02 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0. 63	A 0.02 63	A 0. 63	A 0.02 63
363	A 0.02 52	A 0.02 52	A 0.01 52	A 0.01 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
364	A 0.02 41	A 0.02 41	A 0.01 41	A 0.01 41	A 0.02 41	A 0.01 41	A 0. 41	A 0.02 41
365	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0.02 36	A 0.02 36	A 0. 36	A 0. 36
366	A 0.02 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0. 46	A 0. 46
367	A 0.02 59	A 0.02 59	A 0.01 59	A 0.02 59	A 0.02 59	A 0.01 59	A 0. 59	A 0.02 59
368	A 0.02 69	A 0.02 69	A 0.01 69	A 0.01 69	A 0. 69	A 0.02 69	A 0. 69	A 0. 69
369	A 0.01 51	A 0.01 51	A 0.01 51	A 0.01 51	A 0. 51	A 0.02 51	A 0. 51	A 0.02 51
370	A 0.02 76	A 0.02 76	A 0.01 78	A 0.01 76	A 0.02 78	A 0.02 76	A 0.01 76	A 0. 78
371	A 0.01 127	A 0.01 127	A 0.01 127	A 0.01 127	A 0. 127	A 0.02 127	A 0. 127	A 0. 127
372	B 0.01 149	B 0.02 149	B 0.01 149	B 0.01 149	B 0. 149	B 0.02 149	B 0. 149	B 0. 149
373	B 0.02 166	B 0.02 166	B 0.01 166	B 0.01 166	B 0.02 166	B 0.03 166	B 0.01 166	B 0.02 166
374	A 0.02 87	A 0.01 87	A 0.01 87	A 0.01 87	A 0. 87	A 0.02 87	A 0.01 87	A 0. 87
375	A 0. 28	A 0.01 28	A 0. 28	A 0. 28	A 0. 28	A 0.01 28	A 0. 28	A 0. 28
376	B 0.01 50	B 0.01 50	B 0.01 50	B 0.01 50	B 0.02 50	B 0. 50	B 0.01 50	B 0. 50
377	A 0.01 67	A 0.01 67	A 0.01 65	A 0.01 65	A 0.02 65	A 0.02 67	A 0. 67	A 0.02 65
378	A 0.01 81	A 0.01 81	A 0.01 79	A 0.01 79	A 0. 79	A 0.02 81	A 0.01 81	A 0.02 79
379	A 0.02 94	A 0.02 94	A 0.01 94	A 0.01 94	A 0.02 94	A 0.02 94	A 0.01 94	A 0.02 94
380	A 0.02 73	A 0.02 73	A 0.01 73	A 0.01 73	A 0.02 73	A 0.01 73	A 0.01 73	A 0.02 73
381	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
382	A 0.01 117	A 0.01 117	A 0. 117	A 0.01 117	A 0.02 117	A 0. 117	A 0. 117	A 0.02 117
383	A 0. 24	A 0.01 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
384	A 0.01 99	A 0.01 99	A 0.01 99	A 0.01 99	A 0.02 99	A 0. 99	A 0. 99	A 0. 99
385	A 0.01 133	A 0.02 133	A 0.01 133	A 0.01 133	A 0. 133	A 0.01 133	A 0. 133	A 0. 133
386	A 0.01 30	A 0.01 30	A 0.01 30	A 0.01 30	A 0.02 30	A 0. 30	A 0. 30	A 0. 30
387	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
388	A 0.02 35	A 0.02 35	A 0.02 35	A 0.01 35	A 0.02 35	A 0.02 35	A 0.01 35	A 0.02 35
389	B 0.25 3309	B 0.19 3309	B 0.17 3309	B 0.16 3309	B 0.16 3309	B 0.19 3309	B 0.13 3309	B 0.14 3309
390	A 0.01 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0.02 29	A 0. 29	A 0. 29
391	A 0.01 39	A 0.01 39	A 0. 39	A 0. 39	A 0. 39	A 0.01 39	A 0. 39	A 0.02 39

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
392	A 0.01 50	A 0.01 50	A 0.01 50	A 0. 50	A 0.02 50	A 0. 50	A 0. 50	A 0. 50
393	C 0.11 3567	C 0.1 3567	C 0.06 3567	C 0.06 3567	C 0.06 3567	C 0.18 3567	C 0.04 3567	C 0.08 3567
394	A 0.01 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0.02 29	A 0. 29	A 0. 29	A 0. 29
395	B 0.04 1793	B 0.06 1793	B 0.03 1793	B 0.04 1793	B 0.03 1793	B 0.12 1793	B 0.02 1793	B 0.03 1793
396	B 0.07 1795	B 0.08 1795	B 0.05 1795	B 0.05 1795	B 0.05 1795	B 0.14 1795	B 0.04 1795	B 0.05 1795
397	B 0.06 2009	B 0.07 2009	B 0.04 2009	B 0.04 2009	B 0.05 2009	B 0.15 2009	B 0.03 2009	B 0.05 2009
398	B 0.08 2806	B 0.09 2806	B 0.06 2806	B 0.06 2806	B 0.05 2806	B 0.17 2806	B 0.04 2806	B 0.08 2806
399	B 0.09 3547	B 0.09 3547	B 0.06 3547	B 0.07 3547	B 0.05 3547	B 0.16 3547	B 0.04 3547	B 0.08 3547
400	C 0.06 3664	C 0.07 3664	C 0.04 3664	C 0.04 3664	C 0.05 3664	C 0.14 3664	C 0.03 3664	C 0.03 3664
401	A 0.01 59	A 0.01 59	A 0.01 59	A 0.01 59	A 0. 59	A 0.02 59	A 0.01 59	A 0.02 59
402	B 0.06 3182	B 0.07 3182	B 0.04 3182	B 0.04 3182	B 0.05 3182	B 0.14 3182	B 0.03 3182	B 0.05 3182
403	A 0.01 133	A 0.01 133	A 0.01 133	A 0.01 133	A 0.01 133	A 0. 133	A 0. 133	A 0. 133
404	C 0.05 235	C 0.05 228	C 0.04 228	C 0.04 235	C 0.03 228	C 0.04 235	C 0.03 228	C 0.05 234
405	A 0.03 93	A 0.04 93	A 0.02 93	A 0.02 93	A 0.03 93	A 0.05 93	A 0.02 93	A 0.02 93
406	C 0.02 229	C 0.03 223	C 0.02 223	C 0.02 229	C 0.02 222	C 0.05 229	C 0.01 222	C 0.03 222
407	C 0.03 157	C 0.04 154	C 0.02 154	C 0.02 157	C 0.02 154	C 0.05 157	C 0.02 158	C 0.03 154
408	A 0.04 99	A 0.04 99	A 0.03 99	A 0.03 99	A 0.03 99	A 0.03 99	A 0.02 99	A 0.03 99
409	B 0.02 49	B 0.02 49	B 0.01 49	B 0.01 49	B 0.01 49	B 0.02 49	B 0.01 49	B 0.02 49
410	B 0.03 52	B 0.02 52	B 0.01 52	B 0.01 52	B 0.02 52	B 0.03 52	B 0.01 52	B 0.02 52
411	C 0.04 503	C 0.04 485	C 0.03 485	C 0.03 503	C 0.03 485	C 0.05 503	C 0.02 503	C 0.03 503
412	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
413	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
414	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25	A 0. 25
415	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
416	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0.02 36
417	B 0. 36	B 0. 36	B 0. 36	B 0. 36	B 0. 36	B 0.02 36	B 0. 36	B 0. 36
418	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0.02 36	A 0. 36	A 0. 36
419	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0.01 58	A 0. 58	A 0. 58

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
420	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57
421	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113
422	A	0.01	110	A	0.01	110	A	0.	110	A	0.	110	A	0.	110	A	0.	110	A	0.	110	A	0.	110
423	A	0.	113	A	0.01	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.02	113
424	A	0.	168	A	0.01	168	A	0.	168	A	0.	168	A	0.	168	A	0.02	168	A	0.	168	A	0.02	168
425	B	0.	168	B	0.	168	B	0.	168	B	0.	168	B	0.02	168	B	0.	168	B	0.	168	B	0.02	168
426	B	0.	165	B	0.	165	B	0.	165	B	0.	165	B	0.	165	B	0.	165	B	0.	165	B	0.	165
427	A	0.01	164	A	0.01	164	A	0.01	164	A	0.01	164	A	0.	164	A	0.02	164	A	0.	164	A	0.	164
428	A	0.01	165	A	0.01	165	A	0.01	165	A	0.	165	A	0.	165	A	0.	165	A	0.	165	A	0.	165
429	B	0.01	168	B	0.01	168	B	0.	168	B	0.	168	B	0.02	168	B	0.	168	B	0.	168	B	0.	168
430	A	0.01	168	A	0.01	168	A	0.01	168	A	0.	168	A	0.02	168	A	0.	168	A	0.	168	A	0.	168
431	A	0.	168	A	0.01	168	A	0.	168	A	0.	168	A	0.	168	A	0.02	168	A	0.	168	A	0.	168
432	A	0.	44	A	0.01	44	A	0.	44	A	0.	44	A	0.	44	A	0.02	44	A	0.	44	A	0.02	44
433	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49
434	A	0.	57	A	0.01	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.02	57
435	A	0.02	78	A	0.02	78	A	0.01	78	A	0.01	78	A	0.02	78	A	0.02	78	A	0.01	78	A	0.	78
436	A	0.02	174	A	0.02	174	A	0.01	174	A	0.01	174	A	0.02	174	A	0.	174	A	0.	174	A	0.02	174
437	A	0.02	151	A	0.02	151	A	0.01	151	A	0.01	151	A	0.	151	A	0.01	151	A	0.01	151	A	0.	151
438	A	0.02	163	A	0.02	163	A	0.02	163	A	0.02	163	A	0.02	163	A	0.02	163	A	0.01	163	A	0.	163
439	A	0.01	16	A	0.02	16	A	0.01	16	A	0.01	16	A	0.02	16	A	0.02	16	A	0.01	16	A	0.	16
440	A	0.01	85	A	0.01	85	A	0.	85	A	0.	85	A	0.	85	A	0.	85	A	0.	85	A	0.	85
441	A	0.01	30	A	0.01	30	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
442	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8
443	B	0.	20	B	0.	20	B	0.	20	B	0.	20	B	0.	20	B	0.	20	B	0.	20	B	0.	20
444	A	0.	29	A	0.01	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
445	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
446	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
447	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
448	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
449	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
450	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
451	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11	A 0. 11
452	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
453	A 0.01 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
454	A 0. 58	A 0.01 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0.02 58
455	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55
456	A 0. 54	A 0.01 54	A 0. 54	A 0. 54	A 0. 54	A 0.01 54	A 0. 54	A 0.02 54
457	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58
458	A 0. 113	A 0. 113	A 0. 113	A 0. 113	A 0. 113	A 0. 113	A 0. 113	A 0. 113
459	A 0. 109	A 0. 109	A 0. 109	A 0. 109	A 0. 109	A 0.02 109	A 0. 109	A 0. 109
460	A 0.02 110	A 0.02 110	A 0.01 110	A 0.01 110	A 0. 110	A 0. 110	A 0. 110	A 0. 110
461	B 0.03 165	B 0.02 165	B 0.02 165	B 0.03 165	B 0. 165	B 0. 165	B 0. 165	B 0. 165
462	A 0.01 165	A 0.02 165	A 0.01 165	A 0.01 165	A 0. 165	A 0.02 165	A 0. 165	A 0. 165
463	B 0.02 168	B 0.01 168	B 0.01 168	B 0.01 168	B 0.02 168	B 0.01 168	B 0. 168	B 0. 168
464	A 0.01 168	A 0.02 168	A 0.01 168	A 0.01 168	A 0.02 168	A 0.02 168	A 0.01 168	A 0. 168
465	A 0.01 131	A 0.01 131	A 0.01 131	A 0.01 131	A 0. 131	A 0. 131	A 0. 131	A 0.02 131
466	A 0.02 106	A 0.02 106	A 0.02 106	A 0.01 106	A 0.02 106	A 0.02 106	A 0.01 106	A 0.02 106
467	B 0.13 330	B 0.1 239	B 0.09 239	B 0.09 239	B 0.08 239	B 0.08 239	B 0.04 239	B 0.06 239
468	A 0.01 175	A 0.01 175	A 0. 175	A 0.05 175	A 0.02 175	A 0.02 175	A 0.02 175	A 0.02 175
469	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
470	A 0. 14	A 0.01 14	A 0. 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14	A 0.02 14
471	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
472	A 0.01 12	A 0.01 12	A 0.01 12	A 0.01 12	A 0. 12	A 0.02 12	A 0. 12	A 0. 12
473	A 0.01 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
474	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
475	A 0.01 23	A 0.01 23	A 0.01 23	A 0.01 23	A 0. 23	A 0.02 23	A 0. 23	A 0.02 23

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
476	A	0.01	25	A	0.01	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25
477	A	0.01	25	A	0.01	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.02	25	A	0.	25	A	0.	25
478	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
479	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
480	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.02	34	A	0.02	34	A	0.	34	A	0.	34
481	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.02	36
482	A	0.01	109	A	0.01	109	A	0.	109	A	0.	109	A	0.	109	A	0.02	109	A	0.	109	A	0.	109
483	A	0.01	94	A	0.01	94	A	0.01	94	A	0.01	94	A	0.	94	A	0.02	94	A	0.	94	A	0.02	94
484	B	0.11	79	B	0.13	79	B	0.12	79	B	0.12	79	B	0.09	79	B	0.12	79	B	0.05	79	B	0.06	76
485	A	0.	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10	A	0.02	10	A	0.	10	A	0.	10
486	A	0.02	23	A	0.02	23	A	0.01	23	A	0.01	23	A	0.02	23	A	0.	23	A	0.01	23	A	0.03	23
487	A	0.02	48	A	0.02	48	A	0.01	48	A	0.01	48	A	0.02	48	A	0.02	48	A	0.01	48	A	0.06	48
488	A	0.02	65	A	0.02	65	A	0.01	65	A	0.01	65	A	0.02	65	A	0.02	65	A	0.01	65	A	0.02	65
489	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
490	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
491	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
492	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
493	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
494	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
495	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
496	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
497	A	0.	48	A	0.01	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48
498	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
499	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
500	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
501	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
502	A	0.01	19	A	0.02	19	A	0.01	19	A	0.01	19	A	0.	19	A	0.02	19	A	0.	19	A	0.	19
503	A	0.02	27	A	0.02	27	A	0.02	27	A	0.02	27	A	0.02	27	A	0.02	27	A	0.01	27	A	0.05	27

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
504	A	0.03	40	A	0.03	40	A	0.02	40	A	0.03	40	A	0.03	40	A	0.05	40	A	0.02	40	A	0.03	40
505	A	0.02	43	A	0.02	43	A	0.02	43	A	0.02	43	A	0.03	43	A	0.02	43	A	0.01	43	A	0.06	43
506	A	0.03	45	A	0.03	45	A	0.02	45	A	0.02	45	A	0.03	45	A	0.03	45	A	0.02	45	A	0.11	45
507	A	0.03	40	A	0.03	40	A	0.02	40	A	0.03	40	A	0.02	40	A	0.03	40	A	0.02	40	A	0.05	40
508	A	0.03	56	A	0.03	56	A	0.03	56	A	0.03	56	A	0.03	56	A	0.03	56	A	0.02	56	A	0.03	56
509	A	0.04	88	A	0.04	88	A	0.03	88	A	0.04	88	A	0.03	88	A	0.04	88	A	0.03	88	A	0.05	88
510	B	0.04	88	B	0.04	88	B	0.03	88	B	0.04	88	B	0.03	88	B	0.05	88	B	0.03	88	B	0.05	88
511	A	0.04	88	A	0.04	88	A	0.03	88	A	0.03	88	A	0.03	88	A	0.03	88	A	0.03	88	A	0.06	88
512	A	0.05	129	A	0.04	129	A	0.04	129	A	0.04	129	A	0.03	129	A	0.05	129	A	0.03	129	A	0.06	129
513	B	0.05	136	B	0.04	136	B	0.04	136	B	0.04	136	B	0.05	136	B	0.05	136	B	0.03	136	B	0.05	136
514	B	0.	135	B	0.	135	B	0.	135	B	0.	135	B	0.	135	B	0.	135	B	0.	135	B	0.	135
515	B	0.05	311	B	0.05	311	B	0.04	311	B	0.05	311	B	0.05	311	B	0.06	311	B	0.04	311	B	0.08	311
516	A	0.04	88	A	0.04	88	A	0.03	88	A	0.03	88	A	0.03	88	A	0.05	88	A	0.02	88	A	0.17	88
517	A	0.04	63	A	0.03	63	A	0.03	63	A	0.03	63	A	0.03	63	A	0.03	63	A	0.02	63	A	0.14	63
518	A	0.03	18	A	0.02	18	A	0.02	18	A	0.02	18	A	0.01	18	A	0.02	18	A	0.01	18	A	0.03	18
519	A	0.05	74	A	0.04	74	A	0.03	74	A	0.03	74	A	0.03	74	A	0.03	74	A	0.02	74	A	0.16	74
520	A	0.05	78	A	0.04	78	A	0.03	78	A	0.03	78	A	0.03	78	A	0.03	78	A	0.02	78	A	0.16	83
521	A	0.03	38	A	0.03	38	A	0.02	38	A	0.02	38	A	0.03	38	A	0.03	38	A	0.02	38	A	0.09	43
522	A	0.04	97	A	0.03	97	A	0.03	97	A	0.03	97	A	0.03	97	A	0.03	97	A	0.02	97	A	0.12	97
523	A	0.08	152	A	0.06	152	A	0.05	152	A	0.06	152	A	0.05	152	A	0.06	152	A	0.04	152	A	0.28	152
524	A	0.14	79	A	0.08	79	A	0.09	79	A	0.08	79	A	0.09	79	A	0.11	79	A	0.07	79	A	0.16	79
525	C	0.4	54	C	0.22	54	C	0.19	54	C	0.17	54	C	0.23	54	C	0.17	54	C	0.37	54	C	0.26	54
526	C	0.09	57	C	0.08	57	C	0.07	57	C	0.08	57	C	0.06	57	C	0.09	57	C	0.06	57	C	0.17	57
527	C	0.11	73	C	0.1	73	C	0.09	73	C	0.1	73	C	0.09	73	C	0.11	73	C	0.09	73	C	0.26	73
528	A	0.04	41	A	0.04	41	A	0.03	41	A	0.03	41	A	0.03	59	A	0.05	59	A	0.03	59	A	0.05	59
529	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
530	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
531	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
532	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
533	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
534	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
535	B 0.04 53	B 0.04 53	B 0.03 53	B 0.03 53	B 0.03 53	B 0.05 53	B 0.02 53	B 0.17 53
536	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
537	A 0.01 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
538	B 0.01 91	B 0.01 91	B 0.01 91	B 0.01 91	B 0. 91	B 0. 91	B 0. 91	B 0. 91
539	A 0.04 35	A 0.03 35	A 0.03 35	A 0.03 35	A 0.03 35	A 0.03 35	A 0.02 35	A 0.14 35
540	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
541	B 0.08 61	B 0.07 61	B 0.06 61	B 0.06 61	B 0.06 61	B 0.08 61	B 0.05 61	B 0.14 61
542	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
543	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
544	A 0.04 17	A 0.04 17	A 0.03 17	A 0.04 17	C 0.06 146	C 0.09 146	C 0.06 146	C 0.08 146
545	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
546	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
547	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
548	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
549	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
550	B 0. 51	B 0.01 51	B 0. 51	B 0. 51	B 0. 51	B 0.02 51	B 0. 51	B 0.02 51
551	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
552	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0.02 24	A 0. 24	A 0. 24
553	A 0. 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
554	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
555	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
556	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
557	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
558	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
559	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0.02 27	A 0. 27	A 0.01 27	A 0.02 27

Continued on next page

Table 20 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
560	B 0. 73	B 0.01 73	B 0. 73	B 0. 73	B 0.02 73	B 0. 73	B 0. 73	B 0. 73
561	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
562	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22	A 0. 22	A 0. 22
563	B 0. 324	B 0. 324	B 0. 324	B 0. 324	B 0.01 324	B 0. 324	B 0. 324	B 0. 324
564	B 0. 960	B 0. 960	B 0. 960	B 0. 960	B 0. 960	B 0. 960	B 0. 960	B 0. 960
565	B 0. 124	B 0. 124	B 0. 124	B 0. 124	B 0. 124	B 0. 124	B 0. 124	B 0. 124
566	C 0.01 93	C 0.01 93	C 0.01 99	C 0.01 99	C 0. 99	C 0. 99	C 0. 99	C 0. 99
567	B 0. 43	B 0. 43	B 0. 43	B 0. 43	B 0. 43	B 0. 43	B 0. 43	B 0. 43
568	C 0. 71	C 0. 71	C 0. 72	C 0. 72	C 0. 72	C 0. 72	C 0. 72	C 0. 72
569	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44	B 0. 44
570	A 0.03 100	A 0.03 100	A 0.03 100	A 0.03 100	A 0.02 100	A 0.03 100	A 0.01 100	A 0.03 100
571	A 0.03 119	A 0.03 119	A 0.03 119	A 0.03 119	A 0.02 119	A 0.03 119	A 0.01 119	A 0.03 119
572	C 0.04 214	C 0.07 632	C 0.06 731	C 0.06 731	C 0.05 731	C 0.06 731	C 0.02 731	C 0.08 731
573	C 0.04 524	C 0.07 659	C 0.06 844	C 0.06 844	C 0.05 844	C 0.08 844	C 0.03 844	C 0.08 844
574	C 0. 77	C 0.01 77	C 0. 79	C 0. 79	C 0. 79	C 0. 79	C 0. 79	C 0. 79
575	C 0.01 98	C 0.02 98	C 0.01 105	C 0.01 105	C 0. 105	C 0.01 105	C 0. 105	C 0. 105
576	A 0.01 84	A 0.01 84	A 0.01 84	A 0.01 84	A 0.02 84	A 0.02 84	A 0. 84	A 0.02 84
577	C 0.02 221	C 0.03 221	C 0.02 318	C 0.02 318	C 0.02 318	C 0.05 318	C 0.01 318	C 0.03 318
578	C 0.03 507	C 0.04 507	C 0.03 514	C 0.03 514	C 0.03 514	C 0.03 514	C 0.02 514	C 0.06 514
579	C 0.02 557	C 0.07 701	C 0.03 892	C 0.02 892	C 0.01 892	C 0.08 892	C 0.03 892	C 0.08 892
580	B 0. 3262	B 0.01 3262	B 0. 3262	B 0. 3262	B 0. 3262	B 0. 3262	B 0. 3262	B 0. 3262
581	B 0. 56	B 0. 56	B 0. 56	B 0. 56	B 0. 56	B 0. 56	B 0. 56	B 0. 56

2.19 `1_Algebraic_functions\1.1Binomialproducts\1.1.3General\1.1.3.3(a+bx^n)^p(c+dx^n)^q`

Table 21: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.01	45	A	0.01	45	A	0.01	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45
2	A	0.02	147	A	0.02	180	A	0.01	180	A	0.01	180	A	0.	180	A	0.02	180	A	0.01	180	A	0.	180
3	A	0.	95	A	0.01	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95
4	A	0.03	403	A	0.02	274	A	0.02	274	A	0.02	274	A	0.02	274	A	0.02	274	A	0.01	274	A	0.02	274
5	B	0.02	484	B	0.02	474	B	0.02	474	B	0.02	474	B	0.02	474	B	0.02	474	B	0.01	474	B	0.02	474
6	B	0.03	367	B	0.02	359	B	0.01	359	B	0.01	359	B	0.02	359	B	0.02	359	B	0.01	359	B	0.	359
7	A	0.01	23	A	0.01	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.02	32	A	0.	32	A	0.	32
8	B	0.1	5101	B	0.08	5101	B	0.06	5101	B	0.06	5101	B	0.05	5101	B	0.06	5101	B	0.05	5101	B	0.06	5101
9	B	0.05	7922	B	0.05	7922	B	0.04	7922	B	0.04	7922	B	0.03	7922	B	0.05	7922	B	0.03	7922	B	0.05	7922
10	A	0.02	393	A	0.02	393	A	0.02	393	A	0.02	393	A	0.02	393	A	0.02	393	A	0.02	393	A	0.03	393
11	B	0.14	18791	B	0.14	18791	B	0.1	18791	B	0.1	18791	B	0.09	18791	B	0.11	18791	B	0.08	18791	B	0.12	18791
12	B	0.12	21220	B	0.11	21220	B	0.09	21220	B	0.08	21220	B	0.09	21220	B	0.09	21220	B	0.07	21220	B	0.11	21220
13	B	0.03	187	B	0.03	187	B	0.03	187	B	0.03	187	B	0.03	187	B	0.03	187	B	0.02	187	B	0.03	187
14	A	0.01	62	A	0.01	62	A	0.	62	A	0.	62	A	0.01	62	A	0.02	62	A	0.01	62	A	0.02	62
15	A	0.02	219	A	0.02	219	A	0.02	219	A	0.02	219	A	0.02	219	A	0.02	219	A	0.01	219	A	0.02	219
16	A	0.01	123	A	0.01	123	A	0.01	123	A	0.01	123	A	0.02	123	A	0.	123	A	0.01	123	A	0.02	123
17	A	0.01	54	A	0.01	54	A	0.	54	A	0.	54	A	0.	54	A	0.02	54	A	0.	54	A	0.	54
18	A	0.	26	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.02	26
19	B	0.07	823	B	0.06	823	B	0.04	823	B	0.04	823	B	0.03	823	B	0.05	823	B	0.03	823	B	0.05	823
20	B	0.09	13964	B	0.08	13964	B	0.08	13964	B	0.08	13964	B	0.08	13964	B	0.09	13964	B	0.06	13964	B	0.09	13964
21	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 21 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
28	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
33	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
34	A	0.06	543	A	0.05	543	A	0.04	543	A	0.04	543	A	0.05	543	A	0.05	543	A	0.03	543	A	0.05	543
35	B	0.11	1410	B	0.11	1410	B	0.1	1410	B	0.1	1410	B	0.08	1410	B	0.12	1410	B	0.08	1414	B	0.12	1410
36	A	0.18	24	A	0.02	24	A	0.01	24	A	0.02	24	A	0.02	24	A	0.02	24	A	0.01	24	A	0.02	24
37	A	0.05	188	A	0.06	188	A	0.04	188	A	0.04	188	A	0.03	188	A	0.06	188	A	0.03	188	A	0.05	188
38	A	0.05	144	A	0.06	144	A	0.04	144	A	0.04	144	A	0.03	144	A	0.06	144	A	0.03	144	A	0.06	144
39	A	0.05	106	A	0.05	106	A	0.04	106	A	0.04	106	A	0.03	106	A	0.06	106	A	0.03	106	A	0.03	106
40	A	0.05	108	A	0.05	108	A	0.04	108	A	0.04	108	A	0.03	108	A	0.06	108	A	0.03	108	A	0.05	108
41	A	0.03	10	A	0.03	10	A	0.03	10	A	0.03	10	A	0.03	10	A	0.03	10	A	0.02	10	A	0.03	10
42	A	0.05	14	A	0.04	14	A	0.03	14	A	0.03	14	A	0.03	14	A	0.03	14	A	0.03	14	A	0.05	14
43	A	0.04	8	A	0.04	8	A	0.02	8	A	0.02	8	A	0.03	8	A	0.05	8	A	0.02	8	A	0.03	8
44	A	0.04	14	A	0.03	14	A	0.02	14	A	0.03	14	A	0.02	14	A	0.02	14	A	0.02	14	A	0.03	14
45	A	0.08	25	A	0.03	25	A	0.02	25	A	0.03	25	A	0.03	25	A	0.03	25	A	0.02	25	A	0.02	25
46	A	0.07	34	A	0.04	34	A	0.03	34	A	0.03	34	A	0.03	34	A	0.05	34	A	0.03	34	A	0.03	34
47	A	0.07	43	A	0.04	43	A	0.04	43	A	0.04	43	A	0.03	43	A	0.03	43	A	0.02	43	A	0.05	43
48	C	0.03	30	C	0.04	30	C	0.03	30	C	0.03	30	C	0.03	30	C	0.03	30	C	0.02	30	C	0.05	30
49	A	0.06	37	A	0.03	37	A	0.03	37	A	0.03	37	A	0.03	37	A	0.03	37	A	0.02	37	A	0.03	37
50	B	0.03	171	B	0.03	171	B	0.02	171	B	0.02	171	B	0.03	171	B	0.05	171	B	0.02	171	B	0.	171
51	A	0.02	158	A	0.02	158	A	0.01	158	A	0.01	158	A	0.	158	A	0.02	158	A	0.01	158	A	0.02	158
52	A	0.03	104	A	0.03	104	A	0.02	104	A	0.02	104	A	0.02	104	A	0.03	104	A	0.02	104	A	0.02	104
53	A	0.03	162	A	0.03	162	A	0.02	162	A	0.02	162	A	0.01	162	A	0.03	162	A	0.02	162	A	0.03	162
54	A	0.02	111	A	0.02	111	A	0.01	111	A	0.01	111	A	0.02	111	A	0.03	111	A	0.01	111	A	0.02	111
55	A	0.05	38	A	0.05	38	A	0.04	38	A	0.04	38	A	0.03	38	A	0.05	38	A	0.03	38	A	0.05	38

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Table 21 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
56	C	0.03	28	C	0.03	28	C	0.02	28	C	0.02	28	C	0.02	28	C	0.02	28	C	0.02	28	C	0.03	28
57	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
58	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
59	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
60	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
61	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
62	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
63	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
64	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	A	0.01	71	A	0.01	71	A	0.01	71	A	0.	71	A	0.	71	A	0.	71	A	0.01	71	A	0.	71
67	A	0.	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97
68	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73
69	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49
70	A	0.01	195	A	0.01	195	A	0.01	195	A	0.01	195	A	0.	195	A	0.	195	A	0.	195	A	0.	195
71	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125
72	A	0.	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87
73	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49
74	B	0.	661	B	0.01	661	B	0.01	661	B	0.01	661	B	0.	661	B	0.	661	B	0.	661	B	0.02	661
75	A	0.01	222	A	0.02	222	A	0.01	222	A	0.02	222	A	0.	222	A	0.02	222	A	0.	222	A	0.	222
76	A	0.01	34	A	0.01	34	A	0.01	34	A	0.	34	A	0.02	34	A	0.	34	A	0.	34	A	0.	34
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
79	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
80	A	0.	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87
81	B	0.02	1118	B	0.02	1118	B	0.02	1118	B	0.02	1118	B	0.02	1118	B	0.01	1118	B	0.01	1118	B	0.02	1118
82	B	0.03	669	B	0.02	669	B	0.01	669	B	0.01	669	B	0.	669	B	0.02	669	B	0.01	669	B	0.	669
83	B	0.02	475	B	0.02	475	B	0.01	475	B	0.01	475	B	0.	475	B	0.	475	B	0.	475	B	0.	475

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Table 21 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
84	C	0.04	183	C	0.04	183	C	0.03	184	C	0.03	184	C	0.03	184	C	0.05	184	C	0.05	184	C	0.05	184
85	C	0.04	273	C	0.04	273	C	0.02	271	C	0.07	271	C	0.06	271	C	0.11	271	C	0.04	271	C	0.06	271
86	C	0.05	540	C	0.05	540	C	0.03	539	C	0.04	539	C	0.03	539	C	0.04	539	C	0.02	539	C	0.05	539
87	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
89	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
90	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
91	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
92	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
93	B	0.05	939	B	0.05	939	B	0.03	937	B	0.03	939	B	0.02	937	B	0.04	937	B	0.02	939	B	0.02	939
94	B	0.02	332	B	0.03	332	B	0.02	332	B	0.01	332	B	0.02	332	B	0.03	332	B	0.01	332	B	0.02	332
95	B	0.02	1204	B	0.02	1202	B	0.01	1204	B	0.01	1202	B	0.	1204	B	0.01	1202	B	0.01	1202	B	0.02	1204
96	B	0.02	318	B	0.02	318	B	0.01	318	B	0.02	318	B	0.01	318	B	0.03	318	B	0.01	318	B	0.02	318
97	A	0.	112	A	0.01	112	A	0.	112	A	0.	112	A	0.	112	A	0.	112	A	0.	112	A	0.	112
98	B	0.02	178	B	0.02	178	B	0.01	179	B	0.01	179	B	0.	178	B	0.02	178	B	0.01	179	B	0.	178
99	B	0.02	203	B	0.02	203	B	0.01	203	B	0.01	203	B	0.	203	B	0.02	203	B	0.01	203	B	0.	203
100	B	0.03	1157	B	0.03	1157	B	0.02	1157	B	0.02	1157	B	0.02	1157	B	0.01	1157	B	0.02	1157	B	0.02	1157
101	A	0.01	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45
102	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.	66	A	0.	66	A	0.	66
103	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
104	A	0.02	104	A	0.02	104	A	0.02	104	A	0.02	104	A	0.02	104	A	0.02	104	A	0.01	104	A	0.05	104
105	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
106	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
107	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
108	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
109	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
110	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
111	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

Continued on next page

Table 21 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
112	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
113	A	0.01	68	A	0.01	68	A	0.01	68	A	0.	68	A	0.	68	A	0.01	68	A	0.02	68
114	A	0.01	38	A	0.01	38	A	0.	38	A	0.01	38	A	0.02	38	A	0.01	38	A	0.02	38
115	C	0.05	77	C	0.04	77	C	0.03	77	C	0.03	77	C	0.03	77	C	0.02	77	C	0.03	77
116	A	0.01	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.02	68	A	0.	68	A	0.01	68
117	C	0.04	124	C	0.04	124	C	0.03	124	C	0.03	124	C	0.03	124	C	0.05	124	C	0.02	124
118	B	0.04	158	B	0.04	158	B	0.03	158	B	0.03	158	B	0.03	158	B	0.05	158	B	0.02	158
119	B	0.04	227	B	0.04	227	B	0.03	227	B	0.03	227	B	0.03	227	B	0.03	227	B	0.02	227
120	A	0.01	43	A	0.01	43	A	0.	43	A	0.	43	A	0.	43	A	0.01	43	A	0.02	43
121	A	0.02	66	A	0.02	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.02	66	A	0.01	66
122	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
123	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
124	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.20 $1_Algebraic_functions\backslash 1.1Binomialproducts\backslash 1.1.3General\backslash 1.1.3.4(ex)^m(a+bx^n)^p(c+dx^n)^q$

Table 22: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
1	A	0.01	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.	26	A	0.	26	A	0.02	26			
2	A	0.01	25	A	0.01	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25			
3	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.02	28	A	0.	28			
4	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49	A	0.	49			
5	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.02	46	A	0.	46	A	0.	46			
6	A	0.01	51	A	0.01	51	A	0.01	51	A	0.01	51	A	0.01	51	A	0.	51	A	0.	51			
7	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124			
8	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.02	124	A	0.	124			

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
9	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124
10	B	0.	124	B	0.	124	B	0.	124	B	0.	124	B	0.	124	B	0.	124	B	0.	124	B	0.	124
11	A	0.	121	A	0.	121	A	0.	121	A	0.	121	A	0.	121	A	0.	121	A	0.	121	A	0.	121
12	A	0.01	118	A	0.01	118	A	0.01	118	A	0.01	118	A	0.02	118	A	0.02	118	A	0.	118	A	0.	118
13	A	0.01	101	A	0.02	101	A	0.01	101	A	0.01	101	A	0.02	101	A	0.02	101	A	0.	101	A	0.	101
14	A	0.01	104	A	0.01	104	A	0.01	104	A	0.01	104	A	0.	104	A	0.	104	A	0.	104	A	0.	104
15	A	0.01	104	A	0.01	104	A	0.01	104	A	0.01	104	A	0.	104	A	0.	104	A	0.	104	A	0.	104
16	A	0.01	104	A	0.01	104	A	0.01	104	A	0.01	104	A	0.	104	A	0.	104	A	0.	104	A	0.	104
17	A	0.01	104	A	0.01	104	A	0.01	104	A	0.01	104	A	0.02	104	A	0.02	104	A	0.	104	A	0.	104
18	A	0.01	104	A	0.01	104	A	0.01	104	A	0.01	104	A	0.	104	A	0.02	104	A	0.	104	A	0.	104
19	A	0.	62	A	0.01	62	A	0.	62	A	0.	62	A	0.02	62	A	0.	62	A	0.	62	A	0.	62
20	A	0.01	81	A	0.02	81	A	0.01	81	A	0.01	81	A	0.02	81	A	0.02	81	A	0.	81	A	0.	81
21	A	0.	96	A	0.	96	A	0.	96	A	0.	96	A	0.	96	A	0.	96	A	0.01	96	A	0.	96
22	A	0.01	120	A	0.02	120	A	0.01	120	A	0.01	120	A	0.01	120	A	0.02	120	A	0.	120	A	0.02	120
23	A	0.02	146	A	0.02	146	A	0.01	146	A	0.01	146	A	0.01	146	A	0.02	146	A	0.	146	A	0.	146
24	A	0.02	98	A	0.02	98	A	0.01	98	A	0.01	98	A	0.02	98	A	0.01	98	A	0.	98	A	0.	98
25	A	0.02	74	A	0.02	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.	74	A	0.	74	A	0.	74
26	A	0.01	82	A	0.02	82	A	0.01	82	A	0.01	82	A	0.01	82	A	0.02	82	A	0.	82	A	0.02	82
27	A	0.	85	A	0.	85	A	0.	85	A	0.	85	A	0.	85	A	0.	85	A	0.01	85	A	0.	85
28	A	0.02	110	A	0.02	110	A	0.02	110	A	0.02	110	A	0.	110	A	0.02	110	A	0.01	110	A	0.	110
29	A	0.	136	A	0.	136	A	0.	136	A	0.	136	A	0.	136	A	0.	136	A	0.	136	A	0.	136
30	A	0.03	143	A	0.03	143	A	0.02	143	A	0.02	143	A	0.02	143	A	0.02	143	A	0.01	143	A	0.	143
31	A	0.02	109	A	0.02	109	A	0.01	109	A	0.01	109	A	0.	109	A	0.	109	A	0.	109	A	0.02	109
32	A	0.	174	A	0.	170	A	0.	170	A	0.	170	A	0.	170	A	0.	170	A	0.	170	A	0.	170
33	A	0.	147	A	0.01	143	A	0.	143	A	0.	143	A	0.	143	A	0.	143	A	0.	143	A	0.	143
34	A	0.	125	A	0.01	118	A	0.	118	A	0.	118	A	0.	118	A	0.	118	A	0.01	118	A	0.	118
35	A	0.01	10	A	0.01	10	A	0.01	10	A	0.01	10	A	0.	10	A	0.02	10	A	0.	10	A	0.	10
36	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
37	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5
38	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.02	35	A	0.02	35	A	0.	35	A	0.02	35
39	A	0.01	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.02	32	A	0.	32	A	0.02	32
40	A	0.	38	A	0.01	38	A	0.01	38	A	0.01	38	A	0.	38	A	0.	38	A	0.	38	A	0.02	38
41	A	0.	51	A	0.01	51	A	0.	51	A	0.	51	A	0.	51	A	0.	51	A	0.	51	A	0.02	51
42	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128
43	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128
44	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128
45	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125
46	A	0.	132	A	0.01	132	A	0.	132	A	0.	132	A	0.02	132	A	0.	132	A	0.	132	A	0.	132
47	A	0.01	131	A	0.01	124	A	0.01	124	A	0.01	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124
48	A	0.01	134	A	0.01	134	A	0.01	134	A	0.01	134	A	0.	134	A	0.	134	A	0.	134	A	0.	134
49	A	0.01	124	A	0.01	124	A	0.01	124	A	0.01	124	A	0.	124	A	0.02	124	A	0.	124	A	0.	124
50	A	0.01	85	A	0.01	85	A	0.01	85	A	0.	85	A	0.	85	A	0.	85	A	0.	85	A	0.	85
51	A	0.01	95	A	0.01	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.02	95
52	A	0.01	98	A	0.02	98	A	0.01	98	A	0.01	98	A	0.02	98	A	0.	98	A	0.	98	A	0.	98
53	A	0.01	116	A	0.02	116	A	0.01	116	A	0.01	116	A	0.01	116	A	0.	116	A	0.	116	A	0.	116
54	A	0.02	112	A	0.03	112	A	0.02	112	A	0.02	112	A	0.02	112	A	0.02	112	A	0.01	112	A	0.	112
55	A	0.02	227	A	0.03	218	A	0.02	218	A	0.02	218	A	0.02	218	A	0.02	218	A	0.01	218	A	0.02	218
56	A	0.	92	A	0.01	92	A	0.	92	A	0.	92	A	0.	92	A	0.02	92	A	0.	92	A	0.02	92
57	A	0.01	68	A	0.01	68	A	0.	68	A	0.	68	A	0.	68	A	0.	68	A	0.	68	A	0.	68
58	A	0.01	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.02	37	A	0.02	37	A	0.	37	A	0.	37
59	A	0.01	72	A	0.02	72	A	0.01	72	A	0.01	72	A	0.02	72	A	0.	72	A	0.	72	A	0.	72
60	A	0.01	81	A	0.01	81	A	0.01	81	A	0.01	81	A	0.	81	A	0.02	81	A	0.	81	A	0.02	81
61	A	0.01	114	A	0.02	114	A	0.01	114	A	0.01	114	A	0.	114	A	0.02	114	A	0.	114	A	0.	114
62	A	0.01	55	A	0.02	55	A	0.01	55	A	0.01	55	A	0.02	55	A	0.02	55	A	0.	55	A	0.	55
63	A	0.01	59	A	0.03	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.	59	A	0.02	59
64	A	0.02	98	A	0.03	98	A	0.02	98	A	0.02	98	A	0.02	98	A	0.02	98	A	0.01	98	A	0.	98

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
65	A	0.02	136	A	0.02	107	A	0.02	107	A	0.02	107	A	0.02	107	A	0.01	107	A	0.01	107	A	0.	107
66	A	0.02	134	A	0.02	105	A	0.02	105	A	0.02	105	A	0.01	105	A	0.02	105	A	0.	105	A	0.	105
67	A	0.03	139	A	0.03	113	A	0.02	113	A	0.02	113	A	0.02	113	A	0.03	113	A	0.01	113	A	0.	113
68	A	0.03	191	A	0.03	193	A	0.02	193	A	0.02	193	A	0.02	193	A	0.03	193	A	0.01	193	A	0.02	193
69	A	0.02	177	A	0.02	93	A	0.02	93	A	0.02	93	A	0.01	93	A	0.02	93	A	0.01	93	A	0.02	93
70	A	0.02	335	A	0.04	358	A	0.02	358	A	0.03	358	A	0.02	358	A	0.02	358	A	0.01	358	A	0.	358
71	A	0.	18	A	0.	18	A	0.	18	A	0.01	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
72	A	0.02	110	A	0.02	110	A	0.02	110	A	0.02	110	A	0.01	110	A	0.02	110	A	0.	110	A	0.02	110
73	A	0.01	196	A	0.02	196	A	0.01	196	A	0.01	196	A	0.01	196	A	0.01	196	A	0.	196	A	0.	196
74	A	0.01	156	A	0.02	156	A	0.01	156	A	0.01	156	A	0.01	156	A	0.02	156	A	0.	156	A	0.	156
75	A	0.02	94	A	0.02	94	A	0.02	94	A	0.02	94	A	0.02	94	A	0.02	94	A	0.01	94	A	0.	94
76	A	0.02	131	A	0.02	131	A	0.02	131	A	0.02	131	A	0.02	131	A	0.02	131	A	0.01	131	A	0.02	131
77	A	0.02	161	A	0.02	161	A	0.02	161	A	0.02	161	A	0.03	161	A	0.02	161	A	0.	161	A	0.	161
78	A	0.02	247	A	0.02	247	A	0.01	247	A	0.01	247	A	0.01	247	A	0.02	247	A	0.	247	A	0.	247
79	A	0.02	144	A	0.02	114	A	0.01	114	A	0.01	114	A	0.02	114	A	0.02	114	A	0.	114	A	0.	114
80	A	0.02	222	A	0.03	160	A	0.02	160	A	0.02	160	A	0.02	160	A	0.02	160	A	0.	160	A	0.	160
81	A	0.02	143	A	0.02	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.01	89	A	0.	89
82	A	0.04	225	A	0.03	173	A	0.03	173	A	0.03	173	A	0.02	173	A	0.03	173	A	0.01	173	A	0.02	173
83	B	0.02	388	A	0.03	300	A	0.02	300	A	0.02	300	A	0.02	300	A	0.02	300	A	0.01	300	A	0.02	300
84	A	0.03	234	A	0.02	118	A	0.02	118	A	0.02	118	A	0.02	118	A	0.03	118	A	0.01	118	A	0.02	118
85	A	0.	403	A	0.01	274	A	0.	274	A	0.	274	A	0.02	274	A	0.	274	A	0.	274	A	0.	274
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
89	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
90	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
91	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
92	A	0.01	32	A	0.01	32	A	0.	32	A	0.01	32	A	0.	32	A	0.02	32	A	0.	32	A	0.	32

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
93	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.	56	A	0.	56	A	0.01	56	A	0.	56
94	A	0.02	299	A	0.02	299	A	0.01	299	A	0.01	299	A	0.02	299	A	0.02	299	A	0.01	299	A	0.02	299
95	A	0.04	363	A	0.03	360	A	0.02	360	A	0.02	360	A	0.02	360	A	0.02	360	A	0.01	360	A	0.02	360
96	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.02	56	A	0.01	56	A	0.01	56	A	0.02	56
97	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.	56	A	0.	56	A	0.01	56	A	0.	56
98	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.	56	A	0.01	56	A	0.01	56	A	0.02	56
99	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.02	56	A	0.	56	A	0.01	56	A	0.	56
100	A	0.01	97	A	0.01	97	A	0.01	97	A	0.01	97	A	0.	97	A	0.02	97	A	0.01	97	A	0.	97
101	A	0.01	138	A	0.01	138	A	0.01	138	A	0.01	138	A	0.	138	A	0.02	138	A	0.01	138	A	0.02	138
102	A	0.01	138	A	0.01	138	A	0.01	138	A	0.01	138	A	0.	138	A	0.02	138	A	0.01	138	A	0.02	138
103	B	0.02	504	B	0.02	504	B	0.02	504	B	0.02	504	B	0.02	504	B	0.02	504	B	0.01	504	B	0.03	504
104	B	0.02	495	B	0.02	495	B	0.01	495	B	0.01	495	B	0.02	495	B	0.01	495	B	0.01	495	B	0.02	495
105	B	0.02	461	B	0.03	461	B	0.02	461	B	0.02	461	B	0.02	461	B	0.02	461	B	0.01	461	B	0.02	461
106	A	0.03	523	A	0.03	523	A	0.02	523	A	0.02	523	A	0.02	523	A	0.03	523	A	0.01	523	A	0.02	523
107	A	0.03	590	A	0.03	590	A	0.02	590	A	0.02	590	A	0.02	590	A	0.03	590	A	0.01	590	A	0.02	590
108	A	0.04	568	A	0.03	571	A	0.02	571	A	0.02	571	A	0.02	571	A	0.02	571	A	0.01	571	A	0.02	571
109	B	0.03	622	B	0.03	622	B	0.02	622	B	0.02	622	B	0.03	622	B	0.03	622	B	0.01	622	B	0.02	622
110	B	0.03	706	B	0.03	706	B	0.02	706	B	0.02	706	B	0.02	706	B	0.02	706	B	0.01	706	B	0.02	706
111	B	0.02	697	B	0.02	697	B	0.01	697	B	0.01	697	B	0.02	697	B	0.02	697	B	0.01	697	B	0.02	697
112	A	0.02	304	A	0.03	304	A	0.02	304	A	0.02	304	A	0.02	304	A	0.03	304	A	0.01	304	A	0.	304
113	A	0.03	339	A	0.04	339	A	0.03	339	A	0.02	339	A	0.02	339	A	0.03	339	A	0.01	339	A	0.	339
114	A	0.03	528	A	0.04	494	A	0.02	494	A	0.02	494	A	0.01	494	A	0.02	494	A	0.01	494	A	0.02	494
115	A	0.02	528	A	0.03	506	A	0.02	506	A	0.02	506	A	0.03	506	A	0.03	506	A	0.01	506	A	0.02	506
116	A	0.04	740	B	0.04	982	B	0.02	982	B	0.02	982	B	0.01	982	B	0.03	982	B	0.01	982	B	0.02	982
117	A	0.04	1066	B	0.04	1242	B	0.02	1242	B	0.02	1242	B	0.03	1242	B	0.03	1242	B	0.01	1242	B	0.02	1242
118	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.02	77	A	0.	77	A	0.01	77	A	0.02	77
119	A	0.02	181	A	0.02	181	A	0.02	181	A	0.02	181	A	0.02	181	A	0.02	181	A	0.01	181	A	0.02	181
120	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.	96	A	0.	96	A	0.01	96	A	0.	96

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
121	A	0.02	106	A	0.02	106	A	0.01	106	A	0.01	106	A	0.	106	A	0.02	106	A	0.01	106	A	0.02	106
122	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.02	53	A	0.01	53	A	0.02	53
123	A	0.01	166	A	0.01	166	A	0.01	166	A	0.01	166	A	0.02	166	A	0.	166	A	0.01	166	A	0.	166
124	A	0.02	158	A	0.02	158	A	0.01	158	A	0.01	158	A	0.02	158	A	0.02	158	A	0.01	158	A	0.	158
125	A	0.02	251	A	0.02	251	A	0.02	251	A	0.02	251	A	0.02	251	A	0.03	251	A	0.01	251	A	0.03	251
126	A	0.01	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.02	37	A	0.	37	A	0.02	37
127	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.02	77	A	0.	77	A	0.01	77	A	0.	77
128	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.	54	A	0.02	54
129	A	0.01	60	A	0.01	60	A	0.01	60	A	0.01	60	A	0.	60	A	0.02	60	A	0.01	60	A	0.	60
130	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.	30	A	0.02	30
131	A	0.01	34	A	0.01	34	A	0.	34	A	0.	34	A	0.	34	A	0.02	34	A	0.	34	A	0.	34
132	A	0.02	140	A	0.02	140	A	0.01	140	A	0.01	140	A	0.02	140	A	0.01	140	A	0.01	140	A	0.02	140
133	A	0.02	187	A	0.02	187	A	0.02	187	A	0.02	187	A	0.02	187	A	0.02	187	A	0.01	187	A	0.	187
134	A	0.02	190	A	0.02	190	A	0.01	190	A	0.01	190	A	0.02	190	A	0.01	190	A	0.01	190	A	0.02	190
135	A	0.02	122	A	0.02	122	A	0.02	122	A	0.02	122	A	0.01	122	A	0.02	122	A	0.01	122	A	0.02	122
136	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.	78	A	0.	78	A	0.01	78	A	0.02	78
137	A	0.01	158	A	0.01	158	A	0.01	158	A	0.01	158	A	0.	158	A	0.02	158	A	0.01	158	A	0.02	158
138	A	0.04	389	A	0.04	389	A	0.03	389	A	0.03	389	A	0.03	389	A	0.03	389	A	0.02	389	A	0.05	389
139	A	0.02	249	A	0.01	249	A	0.01	249	A	0.01	249	A	0.	249	A	0.02	249	A	0.01	249	A	0.02	249
140	A	0.03	203	A	0.03	203	A	0.02	203	A	0.02	203	A	0.02	203	A	0.03	203	A	0.02	203	A	0.02	203
141	A	0.01	108	A	0.01	108	A	0.01	108	A	0.01	108	A	0.	108	A	0.	108	A	0.01	108	A	0.02	108
142	A	0.02	197	A	0.02	197	A	0.02	197	A	0.02	197	A	0.02	197	A	0.03	197	A	0.01	197	A	0.02	197
143	A	0.02	192	A	0.02	192	A	0.02	192	A	0.02	192	A	0.02	192	A	0.02	192	A	0.01	192	A	0.02	192
144	A	0.02	99	A	0.02	99	A	0.02	99	A	0.01	99	A	0.02	99	A	0.02	99	A	0.01	99	A	0.02	99
145	A	0.03	281	A	0.03	281	A	0.02	281	A	0.02	281	A	0.02	281	A	0.02	281	A	0.02	281	A	0.03	281
146	A	0.01	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.02	68	A	0.02	68	A	0.01	68	A	0.02	68
147	A	0.02	169	A	0.02	169	A	0.02	169	A	0.02	169	A	0.01	169	A	0.02	169	A	0.01	169	A	0.02	169
148	A	0.01	116	A	0.01	116	A	0.01	116	A	0.01	116	A	0.02	116	A	0.02	116	A	0.	116	A	0.02	116

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
149	A	0.01	24	A	0.01	24	A	0.	24	A	0.	24	A	0.01	24	A	0.	24	A	0.01	24	A	0.	24
150	B	0.03	936	B	0.03	936	B	0.02	936	B	0.02	936	B	0.02	936	B	0.03	936	B	0.03	936	B	0.03	936
151	B	0.03	1017	B	0.02	1017	B	0.02	1017	B	0.02	1017	B	0.03	1017	B	0.02	1017	B	0.02	1017	B	0.03	1017
152	B	0.03	1897	B	0.03	1897	B	0.02	1897	B	0.02	1897	B	0.02	1897	B	0.03	1897	B	0.02	1897	B	0.02	1897
153	B	0.04	3373	B	0.04	3373	B	0.03	3373	B	0.03	3373	B	0.03	3373	B	0.04	3373	B	0.02	3373	B	0.03	3373
154	B	0.03	3127	B	0.03	3127	B	0.02	3127	B	0.02	3127	B	0.03	3127	B	0.03	3127	B	0.01	3127	B	0.02	3127
155	B	0.02	3101	B	0.02	3101	B	0.02	3101	B	0.02	3101	B	0.01	3101	B	0.02	3101	B	0.01	3101	B	0.02	3101
156	B	0.03	3191	B	0.03	3191	B	0.02	3191	B	0.02	3191	B	0.02	3191	B	0.01	3191	B	0.01	3191	B	0.03	3191
157	B	0.02	306	B	0.02	306	B	0.01	306	B	0.01	306	B	0.02	306	B	0.02	306	B	0.01	306	B	0.02	306
158	B	0.03	653	B	0.03	653	B	0.02	653	B	0.02	653	B	0.02	653	B	0.04	653	B	0.01	653	B	0.03	653
159	B	0.04	1192	B	0.04	1192	B	0.03	1192	B	0.03	1192	B	0.02	1192	B	0.04	1192	B	0.02	1192	B	0.03	1192
160	B	0.05	2669	B	0.05	2669	B	0.04	2669	B	0.04	2669	B	0.03	2669	B	0.05	2669	B	0.03	2669	B	0.05	2669
161	B	0.03	2667	B	0.03	2667	B	0.03	2667	B	0.02	2667	B	0.02	2667	B	0.03	2667	B	0.02	2667	B	0.05	2667
162	B	0.03	4820	B	0.04	4820	B	0.03	4820	B	0.03	4820	B	0.03	4820	B	0.03	4820	B	0.03	4820	B	0.05	4820
163	B	0.04	7443	B	0.05	7443	B	0.04	7443	B	0.04	7443	B	0.03	7443	B	0.05	7443	B	0.03	7443	B	0.05	7443
164	B	0.03	7459	B	0.03	7459	B	0.03	7459	B	0.03	7459	B	0.03	7459	B	0.03	7459	B	0.02	7459	B	0.02	7459
165	B	0.03	7451	B	0.03	7451	B	0.02	7451	B	0.02	7451	B	0.03	7451	B	0.03	7451	B	0.02	7451	B	0.05	7451
166	B	0.04	7477	B	0.04	7477	B	0.03	7477	B	0.03	7477	B	0.03	7477	B	0.03	7477	B	0.02	7477	B	0.03	7477
167	B	0.04	1453	B	0.04	1453	B	0.03	1453	B	0.03	1453	B	0.03	1453	B	0.03	1453	B	0.02	1453	B	0.05	1453
168	B	0.02	1461	B	0.02	1461	B	0.02	1461	B	0.02	1461	B	0.02	1461	B	0.02	1461	B	0.01	1461	B	0.03	1461
169	B	0.03	1524	B	0.03	1524	B	0.03	1524	B	0.02	1524	B	0.03	1524	B	0.03	1524	B	0.02	1524	B	0.03	1524
170	B	0.04	2463	B	0.04	2463	B	0.03	2463	B	0.03	2463	B	0.03	2463	B	0.05	2463	B	0.03	2463	B	0.05	2463
171	A	0.06	246	A	0.06	246	A	0.05	246	A	0.05	246	A	0.05	246	A	0.06	246	A	0.05	246	A	0.08	246
172	A	0.08	417	A	0.08	417	A	0.06	417	A	0.06	417	A	0.05	417	A	0.08	417	A	0.04	417	A	0.06	417
173	A	0.07	242	A	0.07	242	A	0.05	242	A	0.06	242	A	0.05	242	A	0.07	242	A	0.04	242	A	0.05	242
174	A	0.09	252	A	0.08	252	A	0.06	252	A	0.06	252	A	0.05	252	A	0.08	252	A	0.04	252	A	0.06	252
175	A	0.08	391	A	0.09	391	A	0.07	391	A	0.07	391	A	0.08	391	A	0.08	391	A	0.05	391	A	0.08	391
176	A	0.04	386	A	0.04	386	A	0.03	386	A	0.02	386	A	0.03	386	A	0.03	386	A	0.02	386	A	0.03	386

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
177	B	0.09	446	B	0.09	446	B	0.07	446	B	0.07	446	B	0.06	446	B	0.1	446	B	0.05	446	B	0.06	446
178	A	0.1	401	A	0.09	401	A	0.07	401	A	0.07	401	A	0.08	401	A	0.08	401	A	0.05	401	A	0.06	401
179	A	0.1	706	A	0.1	706	A	0.1	706	A	0.08	706	A	0.09	706	A	0.11	706	A	0.06	706	A	0.09	706
180	A	0.1	669	A	0.1	669	A	0.08	669	A	0.08	669	A	0.06	669	A	0.11	669	A	0.06	669	A	0.08	669
181	A	0.05	350	A	0.05	350	A	0.04	350	A	0.04	350	A	0.05	350	A	0.05	350	A	0.03	350	A	0.02	350
182	A	0.05	352	A	0.05	352	A	0.04	352	A	0.04	352	A	0.03	352	A	0.05	352	A	0.03	352	A	0.05	352
183	A	0.08	618	A	0.08	618	A	0.06	618	A	0.06	618	A	0.06	618	A	0.08	618	A	0.05	618	A	0.08	618
184	A	0.04	597	A	0.04	597	A	0.03	597	A	0.02	597	A	0.03	597	A	0.03	597	A	0.02	597	A	0.03	597
185	A	0.06	341	A	0.07	341	A	0.06	341	A	0.05	341	A	0.05	341	A	0.08	341	A	0.04	341	A	0.05	341
186	B	0.07	1191	B	0.07	1191	B	0.06	1191	B	0.05	1191	B	0.05	1191	B	0.06	1191	B	0.04	1191	B	0.06	1191
187	B	0.08	701	B	0.08	701	B	0.06	701	B	0.06	701	B	0.05	701	B	0.08	701	B	0.05	701	B	0.06	701
188	B	0.07	651	B	0.08	651	B	0.06	651	B	0.06	651	B	0.06	651	B	0.08	651	B	0.05	651	B	0.08	651
189	B	0.05	1927	B	0.05	1927	B	0.04	1927	B	0.04	1927	B	0.03	1927	B	0.06	1927	B	0.03	1927	B	0.05	1927
190	B	0.04	1721	B	0.04	1721	B	0.03	1721	B	0.03	1721	B	0.03	1721	B	0.05	1721	B	0.02	1721	B	0.03	1721
191	B	0.06	853	B	0.06	853	B	0.05	853	B	0.04	853	B	0.03	853	B	0.06	853	B	0.04	853	B	0.03	853
192	B	0.05	337	B	0.06	337	B	0.05	337	B	0.04	337	B	0.05	337	B	0.06	337	B	0.03	337	B	0.05	337
193	B	0.04	346	B	0.04	346	B	0.03	346	B	0.03	346	B	0.03	346	B	0.05	346	B	0.02	344	B	0.03	346
194	B	0.09	1109	B	0.1	1109	B	0.07	1109	B	0.07	1109	B	0.07	1109	B	0.09	1109	B	0.06	1109	B	0.09	1109
195	B	0.08	1041	B	0.07	1041	B	0.06	1039	B	0.05	1041	B	0.05	1041	B	0.08	1039	B	0.04	1039	B	0.06	1039
196	B	0.04	839	B	0.04	839	B	0.03	839	B	0.03	839	B	0.03	839	B	0.05	839	B	0.02	839	B	0.05	839
197	B	0.06	2255	B	0.08	2255	B	0.06	2255	B	0.06	2255	B	0.06	2255	B	0.09	2255	B	0.04	2255	B	0.05	2255
198	B	0.06	3790	B	0.07	3790	B	0.05	3790	B	0.05	3790	B	0.05	3790	B	0.08	3790	B	0.04	3790	B	0.06	3790
199	B	0.04	2531	B	0.05	2531	B	0.04	2531	B	0.03	2531	B	0.03	2531	B	0.05	2531	B	0.03	2531	B	0.05	2531
200	B	0.07	2622	B	0.08	2622	B	0.06	2622	B	0.06	2622	B	0.05	2622	B	0.09	2622	B	0.05	2622	B	0.05	2622
201	B	0.1	2964	B	0.09	2964	B	0.09	2964	B	0.07	2964	B	0.08	2964	B	0.11	2964	B	0.06	2964	B	0.09	2964
202	B	0.11	4403	B	0.12	4403	B	0.1	4403	B	0.1	4403	B	0.09	4403	B	0.12	4403	B	0.08	4403	B	0.12	4403
203	B	0.06	177	B	0.07	177	B	0.05	177	B	0.05	177	B	0.05	177	B	0.06	177	B	0.04	177	B	0.06	177
204	B	0.08	770	B	0.08	770	B	0.07	770	B	0.07	770	B	0.06	770	B	0.08	770	B	0.06	770	B	0.09	770

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
205	A	0.04	352	A	0.04	352	A	0.03	352	A	0.03	352	A	0.03	352	A	0.06	352	A	0.04	352	A	0.05	352
206	B	0.06	1054	B	0.06	1054	B	0.05	1054	B	0.05	1054	B	0.04	1054	B	0.06	1054	B	0.04	1054	B	0.06	1054
207	B	0.02	529	B	0.03	529	B	0.02	529	B	0.02	529	B	0.02	529	B	0.03	529	B	0.02	529	B	0.02	529
208	A	0.05	1047	A	0.06	1047	A	0.04	1047	A	0.04	1047	A	0.03	1047	A	0.06	1047	A	0.04	1047	A	0.05	1047
209	A	0.04	583	A	0.05	583	A	0.04	583	A	0.04	583	A	0.05	583	A	0.06	583	A	0.03	583	A	0.05	583
210	A	0.07	135	A	0.03	135	A	0.03	135	A	0.03	135	A	0.03	135	A	0.03	126	A	0.03	126	A	0.05	126
211	B	0.04	200	B	0.05	200	B	0.04	200	B	0.04	200	B	0.03	200	B	0.05	200	B	0.03	200	B	0.05	200
212	B	0.06	511	B	0.07	511	B	0.05	511	B	0.06	511	B	0.05	511	B	0.05	511	B	0.04	511	B	0.06	511
213	A	0.01	113	A	0.01	113	A	0.01	113	A	0.01	113	A	0.02	113	A	0.02	113	A	0.01	113	A	0.	113
214	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47
215	A	0.04	34	A	0.04	34	A	0.03	34	A	0.03	34	A	0.03	34	A	0.03	34	A	0.02	34	A	0.03	34
216	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
217	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
218	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
219	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
220	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
221	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
222	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
223	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
224	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
225	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
226	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
227	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
228	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
229	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
230	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
231	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
232	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.	70	A	0.01	70	A	0.	70

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
233	A	0.01	43	A	0.01	43	A	0.	43	A	0.01	43	A	0.	43	A	0.	43	A	0.	43	A	0.	43
234	B	0.03	232	B	0.04	232	B	0.02	232	B	0.02	232	B	0.02	232	B	0.03	232	B	0.02	232	B	0.03	232
235	A	0.01	115	A	0.02	115	A	0.01	115	A	0.01	115	A	0.	115	A	0.02	115	A	0.01	115	A	0.	115
236	A	0.01	67	A	0.02	67	A	0.01	67	A	0.01	67	A	0.	67	A	0.02	67	A	0.01	67	A	0.02	67
237	A	0.02	99	A	0.02	99	A	0.01	99	A	0.01	99	A	0.02	99	A	0.02	99	A	0.01	99	A	0.02	99
238	A	0.02	170	A	0.02	170	A	0.01	170	A	0.01	170	A	0.01	170	A	0.02	170	A	0.01	170	A	0.02	170
239	A	0.01	67	A	0.01	67	A	0.01	67	A	0.01	67	A	0.	67	A	0.02	67	A	0.01	67	A	0.	67
240	A	0.02	148	A	0.02	148	A	0.02	148	A	0.02	148	A	0.02	148	A	0.03	148	A	0.01	148	A	0.02	148
241	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.02	66	A	0.	66	A	0.	66
242	A	0.02	79	A	0.02	79	A	0.01	79	A	0.01	79	A	0.	79	A	0.03	79	A	0.01	79	A	0.	79
243	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
244	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
245	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
246	A	0.	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
247	A	0.01	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.	26	A	0.02	26	A	0.	26	A	0.	26
248	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.02	28	A	0.	28	A	0.	28	A	0.	28
249	A	0.	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.02	53	A	0.	53	A	0.	53
250	A	0.01	50	A	0.01	50	A	0.01	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50
251	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.02	46	A	0.	46	A	0.	46	A	0.02	46
252	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.02	124
253	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124	A	0.	124
254	A	0.	124	A	0.01	124	A	0.	124	A	0.	124	A	0.02	124	A	0.	124	A	0.	124	A	0.	124
255	A	0.01	123	A	0.01	123	A	0.01	123	A	0.01	123	A	0.	123	A	0.02	123	A	0.	123	A	0.	123
256	A	0.01	124	A	0.01	124	A	0.01	124	A	0.01	124	A	0.	124	A	0.02	124	A	0.	124	A	0.	124
257	A	0.01	124	A	0.01	124	A	0.01	124	A	0.01	124	A	0.02	124	A	0.02	124	A	0.	124	A	0.	124
258	A	0.01	107	A	0.02	107	A	0.01	107	A	0.01	107	A	0.02	107	A	0.01	107	A	0.	107	A	0.	107
259	A	0.01	104	A	0.01	104	A	0.01	104	A	0.01	104	A	0.	104	A	0.	104	A	0.	104	A	0.02	104
260	A	0.01	216	A	0.02	216	A	0.01	216	A	0.01	216	A	0.	216	A	0.	216	A	0.	216	A	0.	216

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
261	A	0.01	217	A	0.02	217	A	0.01	217	A	0.01	217	A	0.02	217	A	0.	217	A	0.	217	A	0.	217
262	A	0.01	74	A	0.02	74	A	0.01	74	A	0.01	74	A	0.02	74	A	0.02	74	A	0.01	74	A	0.	74
263	A	0.01	223	A	0.02	231	A	0.01	231	A	0.01	231	A	0.02	231	A	0.02	231	A	0.	231	A	0.	231
264	A	0.02	117	A	0.02	126	A	0.02	126	A	0.02	126	A	0.	126	A	0.02	126	A	0.	126	A	0.	126
265	A	0.02	308	A	0.02	308	A	0.01	308	A	0.02	308	A	0.02	308	A	0.02	308	A	0.01	308	A	0.	308
266	A	0.02	299	A	0.02	295	A	0.02	295	A	0.02	295	A	0.	295	A	0.02	295	A	0.01	295	A	0.02	295
267	A	0.02	268	A	0.02	264	A	0.01	264	A	0.02	264	A	0.02	264	A	0.	264	A	0.	264	A	0.	264
268	A	0.02	241	A	0.02	271	A	0.01	271	A	0.01	271	A	0.02	271	A	0.02	271	A	0.	271	A	0.02	271
269	A	0.02	251	A	0.02	279	A	0.01	279	A	0.01	279	A	0.	279	A	0.01	279	A	0.	279	A	0.02	279
270	A	0.02	299	A	0.03	297	A	0.02	297	A	0.02	297	A	0.02	297	A	0.03	297	A	0.01	297	A	0.	297
271	A	0.01	246	A	0.02	246	A	0.02	246	A	0.02	246	A	0.02	246	A	0.02	246	A	0.01	246	A	0.02	246
272	B	0.01	262	B	0.01	262	B	0.01	262	B	0.01	262	B	0.02	262	B	0.	262	B	0.01	262	B	0.02	262
273	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.	56	A	0.	56	A	0.01	56	A	0.02	56
274	A	0.01	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.02	56	A	0.	56	A	0.01	56	A	0.	56
275	A	0.01	80	A	0.01	80	A	0.01	80	A	0.01	80	A	0.02	80	A	0.02	80	A	0.01	80	A	0.02	80
276	A	0.03	96	A	0.02	125	A	0.02	125	A	0.02	125	A	0.02	125	A	0.02	125	A	0.01	125	A	0.02	125
277	A	0.11	435	B	2.45	1770	B	1.58	1728	B	1.58	1770	B	1.42	1728	B	1.7	1728	F	0	0	F	0	0
278	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.02	77	A	0.01	77	A	0.01	77	A	0.02	77
279	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.02	53	A	0.01	53	A	0.01	53	A	0.02	53
280	B	0.03	618	B	0.03	618	B	0.04	618	B	0.04	618	B	0.05	618	B	0.08	618	B	0.06	618	B	0.05	618
281	B	0.01	596	B	0.02	596	B	0.01	596	B	0.01	596	B	0.	596	B	0.02	596	B	0.02	596	B	0.02	596
282	B	0.04	902	B	0.05	902	B	0.04	902	B	0.04	902	B	0.03	902	B	0.09	902	B	0.03	902	B	0.05	902
283	B	0.03	920	B	0.04	920	B	0.03	920	B	0.03	920	B	0.03	920	B	0.08	920	B	0.02	920	B	0.03	920
284	B	0.04	964	B	0.05	964	B	0.03	964	B	0.03	964	B	0.03	964	B	0.08	964	B	0.02	964	B	0.05	964
285	A	0.01	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.02	31	A	0.	31	A	0.01	31	A	0.02	31
286	A	0.05	101	A	0.06	101	A	0.04	101	A	0.04	101	A	0.05	101	A	0.09	101	A	0.03	101	A	0.05	101
287	B	0.06	653	B	0.07	653	B	0.05	653	B	0.05	653	B	0.06	653	B	0.09	653	B	0.04	653	B	0.03	653
288	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.02	77	A	0.02	77	A	0.01	77	A	0.02	77

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Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
289	A	0.04	62	A	0.05	62	A	0.04	62	A	0.04	62	A	0.03	62	A	0.09	62	A	0.03	62	A	0.03	62
290	B	0.04	624	B	0.04	624	B	0.03	624	B	0.03	624	B	0.03	624	B	0.08	624	B	0.02	624	B	0.05	624
291	B	0.04	932	B	0.04	932	B	0.03	932	B	0.03	932	B	0.03	932	B	0.09	932	B	0.02	932	B	0.05	932
292	B	0.05	970	B	0.06	970	B	0.05	970	B	0.05	970	B	0.05	970	B	0.1	970	B	0.04	970	B	0.05	970
293	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.	77	A	0.	77	A	0.01	77	A	0.	77
294	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.	52	A	0.	52	A	0.01	52	A	0.02	52
295	B	0.05	627	B	0.05	627	B	0.04	627	B	0.04	627	B	0.03	627	B	0.09	627	B	0.03	627	B	0.06	627
296	B	0.06	975	B	0.07	975	B	0.05	975	B	0.06	975	B	0.05	975	B	0.11	975	B	0.04	975	B	0.05	975
297	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.02	53	A	0.02	53	A	0.01	53	A	0.	53
298	A	0.08	157	A	0.09	157	A	0.07	157	A	0.07	157	A	0.06	157	A	0.12	157	A	0.05	157	A	0.08	157
299	B	0.08	1034	B	0.09	1034	B	0.07	1034	B	0.07	1034	B	0.06	1034	B	0.12	1034	B	0.05	1034	B	0.08	1034
300	C	0.2	518	C	0.18	518	C	0.14	548	C	0.14	548	C	0.12	548	C	0.17	548	C	0.11	548	C	0.17	548
301	C	0.04	429	C	0.05	429	C	0.03	441	C	0.03	441	C	0.03	441	C	0.08	441	C	0.02	441	C	0.03	441
302	C	0.09	696	C	0.1	696	C	0.07	717	C	0.09	717	C	0.08	717	C	0.14	717	C	0.06	717	C	0.09	717
303	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
304	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
305	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
306	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
307	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
308	C	0.25	3721	C	0.2	3721	C	0.17	3721	C	0.17	3721	C	0.16	3721	C	0.2	3721	C	0.14	3721	C	0.17	3721
309	C	0.14	7544	C	0.16	7544	C	0.11	7544	C	0.11	7544	C	0.11	7544	C	0.23	7544	C	0.08	7544	C	0.14	7544
310	C	0.09	4914	C	0.11	4914	C	0.07	4914	C	0.07	4914	C	0.08	4914	C	0.2	4914	C	0.06	4914	C	0.08	4914
311	C	0.07	3397	C	0.08	3397	C	0.05	3397	C	0.05	3397	C	0.05	3397	C	0.17	3397	C	0.04	3397	C	0.06	3397
312	C	0.1	7016	C	0.1	7016	C	0.06	7016	C	0.07	7016	C	0.06	7016	C	0.19	7016	C	0.05	7016	C	0.08	7016
313	C	0.08	5392	C	0.1	5392	C	0.07	5392	C	0.07	5392	C	0.06	5392	C	0.2	5392	C	0.05	5392	C	0.06	5392
314	C	0.05	3654	C	0.06	3654	C	0.04	3654	C	0.04	3654	C	0.05	3654	C	0.08	3654	C	0.03	3654	C	0.05	3654
315	C	0.14	10961	C	0.17	10961	C	0.12	10961	C	0.12	10961	C	0.11	10961	C	0.25	10961	C	0.09	10961	C	0.12	10961
316	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
317	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
318	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
319	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
320	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
321	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
322	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
323	A	0.01	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.01	89	A	0.02	89
324	A	0.02	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.01	59	A	0.	59	A	0.	59
325	A	0.02	105	A	0.03	105	A	0.02	105	A	0.02	105	A	0.03	105	A	0.03	105	A	0.01	105	A	0.	105
326	B	0.03	1015	B	0.04	1015	B	0.02	1015	B	0.02	1015	B	0.03	1015	B	0.03	1015	B	0.02	1015	B	0.03	1015
327	B	0.04	1066	B	0.05	1066	B	0.04	1066	B	0.03	1066	B	0.03	1066	B	0.03	1066	B	0.02	1066	B	0.05	1066
328	B	0.02	1037	B	0.04	1037	B	0.02	1037	B	0.02	1037	B	0.02	1037	B	0.03	1037	B	0.01	1037	B	0.02	1037
329	C	0.07	421	C	0.06	421	C	0.04	419	C	0.09	419	C	0.08	419	C	0.13	419	C	0.05	419	C	0.08	419
330	B	0.06	378	B	0.06	378	B	0.05	378	B	0.04	378	B	0.03	378	B	0.05	378	B	0.03	378	B	0.06	378
331	B	0.02	335	B	0.02	335	B	0.01	335	B	0.01	335	B	0.02	335	B	0.	335	B	0.01	335	B	0.02	335
332	B	0.03	356	B	0.04	356	B	0.02	356	B	0.02	356	B	0.03	356	B	0.03	356	B	0.02	356	B	0.03	356
333	B	0.03	350	B	0.03	350	B	0.02	350	B	0.02	350	B	0.02	350	B	0.02	350	B	0.01	350	B	0.03	350
334	B	0.07	861	B	0.05	861	B	0.04	861	B	0.04	861	B	0.03	861	B	0.03	861	B	0.04	861	B	0.05	861
335	B	0.03	885	B	0.02	885	B	0.02	885	B	0.02	885	B	0.02	885	B	0.03	885	B	0.01	885	B	0.02	885
336	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
337	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
338	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
339	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
340	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
341	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
342	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
343	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
344	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

Continued on next page

Table 22 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
345	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
346	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
347	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
348	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
349	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
350	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
351	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
352	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
353	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
354	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
355	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
356	B	0.	72	B	0.	72	B	0.	72	B	0.	72	B	0.	72	B	0.02	72	B	0.01	72	B	0.02	72
357	A	0.01	33	A	0.02	33	A	0.01	33	A	0.01	33	A	0.02	33	A	0.02	33	A	0.01	33	A	0.02	33
358	A	0.	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41	A	0.01	41	A	0.	41
359	A	0.02	25	A	0.02	25	A	0.02	25	A	0.01	25	A	0.02	25	A	0.02	25	A	0.01	25	A	0.02	25
360	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
361	A	0.04	87	A	0.05	87	A	0.03	87	A	0.03	87	A	0.03	87	A	0.03	87	A	0.02	87	A	0.11	87
362	B	0.	157	B	0.01	157	B	0.	157	B	0.	157	B	0.02	157	B	0.	157	B	0.	157	B	0.	157
363	B	0.	157	B	0.01	157	B	0.	157	B	0.	157	B	0.	157	B	0.	157	B	0.	157	B	0.	157
364	A	0.	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
365	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
366	B	0.06	143	B	0.06	143	B	0.04	143	B	0.04	143	B	0.03	142	B	0.05	143	B	0.04	142	B	0.06	143
367	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
368	F	0	0	F	0	0	F	0	0	F	0	0	A	0.14	35	A	0.16	35	A	0.14	35	A	0.26	35

2.21 1_Algebraic_functions\1.1Binomialproducts\1.1.3General\1.1.3.5(a+bxⁿ)^p(c+dxⁿ)^q(e+fxⁿ)^r

Table 23: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	176	A	0.	176	A	0.	176	A	0.	176	A	0.	176	A	0.	176	A	0.	176	A	0.	176
2	A	0.	135	A	0.	135	A	0.	135	A	0.	135	A	0.	135	A	0.	135	A	0.	135	A	0.	135
3	A	0.02	210	B	0.02	315	B	0.01	315	B	0.01	315	B	0.02	315	B	0.02	315	B	0.	315	B	0.02	315
4	B	0.02	397	B	0.02	390	B	0.01	390	B	0.01	390	B	0.02	390	B	0.02	390	B	0.	390	B	0.02	390
5	A	0.02	360	B	0.02	510	B	0.01	510	B	0.01	510	B	0.02	510	B	0.02	510	B	0.	510	B	0.	510
6	A	0.	339	A	0.	339	A	0.	339	A	0.	339	A	0.	339	A	0.	339	A	0.	339	A	0.	339
7	A	0.	149	A	0.	149	A	0.	149	A	0.	149	A	0.	149	A	0.	149	A	0.	149	A	0.	149
8	A	0.05	394	A	0.05	394	A	0.04	394	A	0.04	394	A	0.05	394	A	0.06	394	A	0.03	394	A	0.05	394
9	A	0.04	158	A	0.05	158	A	0.03	158	A	0.03	158	A	0.03	158	A	0.05	158	A	0.02	158	A	0.03	158
10	A	0.06	393	A	0.07	393	A	0.05	393	A	0.05	393	A	0.05	393	A	0.06	393	A	0.04	393	A	0.05	393
11	B	0.05	646	B	0.05	646	B	0.03	646	B	0.03	646	B	0.03	646	B	0.03	646	B	0.02	646	B	0.03	646
12	B	0.19	6245	B	0.22	6245	B	0.18	6245	B	0.18	6245	B	0.16	6245	B	0.22	6245	B	0.15	6245	B	0.22	6245
13	B	0.03	1028	B	0.03	1028	B	0.02	1028	B	0.02	1028	B	0.02	1028	B	0.05	1028	B	0.02	1028	B	0.02	1032
14	A	0.03	191	A	0.04	191	A	0.02	191	A	0.02	191	A	0.03	191	A	0.03	191	A	0.02	191	A	0.02	191
15	A	0.06	64	A	0.05	64	A	0.04	64	A	0.04	64	A	0.05	64	A	0.05	64	A	0.03	64	A	0.03	64
16	A	0.06	293	A	0.06	293	A	0.05	293	A	0.04	293	A	0.03	293	A	0.06	293	A	0.04	293	A	0.06	293
17	A	0.04	35	A	0.05	35	A	0.04	35	A	0.04	35	A	0.03	35	A	0.03	35	A	0.03	35	A	0.05	35
18	B	0.09	1622	B	0.07	1622	B	0.05	1622	B	0.04	1622	B	0.03	1622	B	0.05	1622	B	0.03	1622	B	0.06	1622
19	A	0.06	765	A	0.07	765	A	0.06	765	A	0.05	765	A	0.06	765	A	0.08	765	A	0.04	765	A	0.08	765
20	B	0.13	1105	B	0.12	1105	B	0.1	1105	B	0.1	1105	B	0.09	1105	B	0.14	1105	B	0.09	1105	B	0.11	1109
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.22 1_Algebraic_functions\1.1Binomialproducts\1.1.3General\1.1.3.6 $(gx)^m(a+bx^n)^p(c+dx^n)^q(e+fx^n)^r$

Table 24: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.01	1229	B	0.01	1229	B	0.01	1229	B	0.01	1229	B	0.02	1229	B	0.01	1229	B	0.01	1229	B	0.02	1229
2	B	0.01	711	B	0.01	711	B	0.01	711	B	0.01	711	B	0.	711	B	0.02	711	B	0.01	711	B	0.02	711
3	B	0.02	2443	B	0.02	2443	B	0.01	2443	B	0.01	2443	B	0.02	2443	B	0.02	2443	B	0.02	2443	B	0.	2443
4	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	B	0.02	3953	B	0.02	3953	B	0.01	3953	B	0.01	3953	B	0.	3953	B	0.01	3953	B	0.02	3953	B	0.03	3953
6	B	0.02	2443	B	0.02	2443	B	0.01	2443	B	0.01	2443	B	0.02	2443	B	0.02	2443	B	0.02	2443	B	0.02	2443
7	B	0.01	475	B	0.01	475	B	0.01	475	B	0.01	475	B	0.	475	B	0.02	475	B	0.01	475	B	0.02	475
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	C	0.2	5908	C	0.2	5908	C	0.18	5908	C	0.18	5908	C	0.16	5908	C	0.22	5908	C	0.16	5908	C	0.23	5908
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.23 1_Algebraic_functions\1.1Binomialproducts\1.1.3General\1.1.3.8(cx)^mPq(x)(a+bxⁿ)^p

Table 25: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.01	495	A	0.01	495	A	0.01	495	A	0.01	495	A	0.	495	A	0.02	495	A	0.01	495	A	0.	495
2	A	0.01	91	A	0.01	91	A	0.	91	A	0.	91	A	0.02	91	A	0.02	91	A	0.	91	A	0.02	91
3	A	0.03	254	A	0.03	406	A	0.02	406	A	0.02	406	A	0.01	406	A	0.02	406	A	0.01	406	A	0.02	406
4	A	0.01	260	A	0.02	260	A	0.01	260	A	0.01	260	A	0.	260	A	0.02	260	A	0.01	260	A	0.02	260
5	B	0.	502	B	0.01	502	B	0.	502	B	0.	502	B	0.	502	B	0.	502	B	0.	502	B	0.02	502
6	B	0.	450	B	0.01	450	B	0.	450	B	0.01	450	B	0.02	450	B	0.	450	B	0.	450	B	0.	450
7	B	0.01	419	B	0.02	419	B	0.01	419	B	0.01	419	B	0.	419	B	0.	419	B	0.	419	B	0.02	419
8	B	0.01	491	B	0.02	491	B	0.01	491	B	0.01	491	B	0.02	491	B	0.02	491	B	0.	491	B	0.	491
9	B	0.02	546	B	0.02	546	B	0.01	546	B	0.01	546	B	0.02	546	B	0.02	546	B	0.01	546	B	0.02	546
10	A	0.03	282	A	0.03	282	A	0.02	282	A	0.02	282	A	0.02	282	A	0.03	282	A	0.01	282	A	0.02	282
11	A	0.02	622	A	0.02	622	A	0.02	622	A	0.02	622	A	0.	622	A	0.	622	A	0.01	622	A	0.	622
12	B	0.02	463	B	0.03	463	B	0.02	463	B	0.02	463	B	0.02	463	B	0.03	463	B	0.01	463	B	0.02	463
13	B	0.02	477	B	0.02	477	B	0.02	477	B	0.02	477	B	0.02	477	B	0.02	477	B	0.01	477	B	0.02	477
14	B	0.02	520	B	0.03	520	B	0.02	520	B	0.02	520	B	0.02	520	B	0.01	520	B	0.01	520	B	0.	520
15	A	0.03	566	A	0.03	566	A	0.02	566	A	0.02	566	A	0.02	566	A	0.03	566	A	0.01	566	A	0.02	566
16	A	0.02	313	A	0.02	325	A	0.02	325	A	0.02	325	A	0.02	325	A	0.02	325	A	0.	325	A	0.02	325
17	A	0.02	156	A	0.02	183	A	0.02	183	A	0.01	183	A	0.	183	A	0.02	183	A	0.	183	A	0.	183
18	A	0.03	349	A	0.03	364	A	0.02	364	A	0.02	364	A	0.02	364	A	0.01	364	A	0.01	364	A	0.02	364
19	B	0.02	668	B	0.02	668	B	0.02	668	B	0.02	668	B	0.01	668	B	0.02	668	B	0.01	668	B	0.	668
20	B	0.02	547	B	0.03	547	B	0.02	547	B	0.02	547	B	0.02	547	B	0.02	547	B	0.01	547	B	0.	547
21	A	0.03	659	A	0.03	657	A	0.02	657	A	0.02	657	A	0.02	657	A	0.02	657	A	0.01	657	A	0.	657
22	A	0.01	238	A	0.01	238	A	0.01	238	A	0.01	238	A	0.01	238	A	0.	238	A	0.	238	A	0.	238
23	A	0.01	272	A	0.01	272	A	0.01	272	A	0.01	272	A	0.02	272	A	0.02	272	A	0.	272	A	0.02	272
24	A	0.01	45	A	0.02	45	A	0.01	45	A	0.01	45	A	0.02	45	A	0.01	45	A	0.01	45	A	0.	45
25	A	0.01	25	A	0.01	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.01	25	A	0.	25	A	0.	25
26	A	0.01	37	A	0.02	37	A	0.01	37	A	0.01	37	A	0.02	37	A	0.02	37	A	0.01	37	A	0.	37
27	A	0.01	35	A	0.02	35	A	0.01	35	A	0.01	35	A	0.02	35	A	0.02	35	A	0.	35	A	0.	35

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Table 25 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
28	A	0.01	33	A	0.02	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.02	33	A	0.01	33	A	0.	33
29	A	0.01	188	A	0.01	188	A	0.01	188	A	0.01	188	A	0.	188	A	0.	188	A	0.	188	A	0.	188
30	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
31	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.01	17	A	0.	17	A	0.	17
32	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.02	34	A	0.02	34	A	0.	34	A	0.02	34
33	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113	A	0.	113
34	A	0.01	221	A	0.01	221	A	0.01	221	A	0.01	221	A	0.	221	A	0.	221	A	0.	221	A	0.	221
35	A	0.01	225	A	0.02	225	A	0.01	225	A	0.01	225	A	0.	225	A	0.02	225	A	0.	225	A	0.	225
36	A	0.01	219	A	0.01	235	A	0.01	235	A	0.01	235	A	0.	235	A	0.02	235	A	0.	235	A	0.02	235
37	A	0.03	397	A	0.03	383	A	0.02	383	A	0.02	383	A	0.02	383	A	0.03	383	A	0.01	383	A	0.02	383
38	A	0.03	400	A	0.04	386	A	0.03	386	A	0.03	386	A	0.02	386	A	0.03	386	A	0.01	386	A	0.02	386
39	A	0.	94	A	0.01	94	A	0.01	94	A	0.01	94	A	0.	94	A	0.02	94	A	0.	94	A	0.	94
40	A	0.	186	A	0.01	186	A	0.	186	A	0.	186	A	0.	186	A	0.02	186	A	0.	186	A	0.	186
41	A	0.01	87	A	0.01	87	A	0.01	87	A	0.01	87	A	0.	87	A	0.	87	A	0.	87	A	0.	87
42	A	0.01	108	A	0.01	108	A	0.01	108	A	0.01	108	A	0.	108	A	0.	108	A	0.	108	A	0.	108
43	A	0.	80	A	0.	80	A	0.	80	A	0.	80	A	0.	80	A	0.02	80	A	0.	80	A	0.	80
44	A	0.	152	A	0.	152	A	0.	152	A	0.	152	A	0.	152	A	0.	152	A	0.	152	A	0.	152
45	A	0.	224	A	0.	224	A	0.	224	A	0.	224	A	0.	224	A	0.	224	A	0.	224	A	0.	224
46	B	0.01	442	B	0.02	442	B	0.01	442	B	0.01	442	B	0.	442	B	0.01	442	B	0.01	442	B	0.	442
47	B	0.02	562	B	0.02	562	B	0.01	562	B	0.02	562	B	0.02	562	B	0.02	562	B	0.01	562	B	0.02	562
48	B	0.02	504	B	0.02	502	B	0.01	502	B	0.01	502	B	0.02	502	B	0.02	502	B	0.01	502	B	0.	502
49	B	0.03	620	B	0.03	639	B	0.02	639	B	0.02	639	B	0.02	639	B	0.02	639	B	0.01	639	B	0.02	639
50	B	0.01	444	B	0.01	444	B	0.01	444	B	0.01	444	B	0.	444	B	0.	444	B	0.	444	B	0.02	444
51	A	0.03	267	A	0.03	267	A	0.02	267	A	0.02	267	A	0.02	267	A	0.02	267	A	0.03	267	A	0.02	267
52	A	0.04	291	A	0.03	291	A	0.02	291	A	0.02	291	A	0.02	291	A	0.04	291	A	0.02	291	A	0.02	291
53	A	0.03	793	A	0.04	793	A	0.03	793	A	0.04	793	A	0.03	793	A	0.08	793	A	0.03	793	A	0.05	793
54	A	0.04	778	A	0.04	778	A	0.03	778	A	0.03	778	A	0.02	778	A	0.08	778	A	0.03	778	A	0.03	778
55	B	0.01	779	B	0.01	779	B	0.01	779	B	0.01	779	B	0.01	779	B	0.02	779	B	0.02	779	B	0.02	779

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Table 25 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	A 0.03 825	A 0.04 825	A 0.02 825	A 0.03 825	A 0.02 825	A 0.06 825	A 0.03 825	A 0.02 825
57	B 0.06 1180	B 0.07 1180	B 0.05 1180	B 0.05 1180	B 0.05 1180	B 0.09 1180	B 0.05 1180	B 0.05 1180
58	B 0.01 1376	B 0.02 1376	B 0.01 1376	B 0.01 1376	B 0. 1376	B 0.02 1376	B 0.01 1376	B 0.02 1376
59	B 0.07 1613	B 0.08 1613	B 0.06 1613	B 0.06 1613	B 0.06 1613	B 0.11 1613	B 0.05 1613	B 0.08 1613
60	B 0.01 1193	B 0.02 1193	B 0.01 1193	B 0.01 1193	B 0.02 1193	B 0.02 1193	B 0.01 1193	B 0.02 1193
61	B 0.06 1196	B 0.07 1196	B 0.05 1196	B 0.05 1196	B 0.06 1196	B 0.09 1196	B 0.04 1196	B 0.06 1196
62	B 0.04 1491	B 0.05 1491	B 0.03 1491	B 0.03 1491	B 0.03 1491	B 0.08 1491	B 0.02 1491	B 0.02 1491
63	A 0.01 188	A 0.01 188	A 0.01 188	A 0.01 188	A 0. 188	A 0.01 188	A 0.01 188	A 0.02 188
64	A 0. 280	A 0.01 280	A 0. 280	A 0. 280	A 0. 280	A 0.02 280	A 0. 280	A 0. 280
65	B 0.01 228	B 0.01 228	B 0.01 228	B 0.01 228	B 0.02 228	B 0.02 228	B 0.01 228	B 0. 228
66	A 0.01 344	A 0.01 344	A 0.01 344	A 0.01 344	A 0.02 344	A 0. 344	A 0. 344	A 0.02 344
67	B 0.01 286	B 0.01 286	B 0.01 286	B 0.01 286	B 0.01 286	B 0. 286	B 0. 286	B 0. 286
68	A 0.03 281	C 0.03 151	C 0.03 158	C 0.03 158	C 0.02 158	C 0.03 158	C 0.02 158	C 0.05 158
69	A 0. 103	A 0. 103	A 0. 103	A 0. 103	A 0. 103	A 0. 103	A 0. 103	A 0. 103
70	A 0. 106	A 0. 106	A 0. 106	A 0. 106	A 0. 106	A 0. 106	A 0. 106	A 0. 106
71	A 0. 151	A 0. 151	A 0. 151	A 0. 151	A 0. 151	A 0. 151	A 0. 151	A 0. 151
72	A 0. 199	A 0.01 199	A 0. 199	A 0. 199	A 0. 199	A 0.02 199	A 0. 199	A 0. 199
73	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
74	A 0. 77	A 0. 77	A 0. 77	A 0. 77	A 0. 77	A 0. 77	A 0. 77	A 0. 77
75	A 0. 54	A 0. 54	A 0. 54	A 0. 54	A 0. 54	A 0. 54	A 0. 54	A 0. 54
76	A 0. 151	A 0. 151	A 0. 151	A 0. 151	A 0. 151	A 0. 151	A 0. 151	A 0. 151
77	A 0.01 177	A 0.01 177	A 0. 177	A 0.01 177	A 0. 177	A 0.02 177	A 0. 177	A 0. 177
78	A 0.01 362	A 0.01 362	A 0.01 362	A 0.01 362	A 0. 362	A 0.02 362	A 0. 362	A 0. 362
79	A 0.02 333	A 0.02 362	A 0.01 362	A 0.01 362	A 0.02 362	A 0.02 362	A 0.01 362	A 0.02 362
80	A 0.01 432	A 0.02 432	A 0.01 432	A 0.01 432	A 0.02 432	A 0.02 432	A 0.01 432	A 0.02 432
81	A 0.02 399	C 0.03 153	C 0.03 160	C 0.03 160	C 0.03 160	C 0.01 160	C 0.01 160	C 0.03 160
82	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
83	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12

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Table 25 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
84	A	0.	125	A	0.01	125	A	0.	125	A	0.	125	A	0.	125	A	0.02	125	A	0.	125	A	0.	125
85	A	0.01	125	A	0.01	125	A	0.	125	A	0.	125	A	0.02	125	A	0.	125	A	0.	125	A	0.	125
86	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.02	7	A	0.	7	A	0.	7
87	B	0.01	171	B	0.01	171	B	0.	171	B	0.	171	B	0.	171	B	0.	171	B	0.	171	B	0.	171
88	A	0.	286	A	0.01	286	A	0.	286	A	0.	286	A	0.02	286	A	0.	286	A	0.	286	A	0.	286
89	A	0.02	519	B	0.02	557	B	0.01	557	B	0.01	557	B	0.02	557	B	0.01	557	B	0.01	557	B	0.02	557
90	B	0.02	501	B	0.02	628	B	0.01	628	B	0.01	628	B	0.02	628	B	0.02	628	B	0.01	628	B	0.02	628
91	A	0.02	732	B	0.02	886	B	0.01	886	B	0.01	886	B	0.02	886	B	0.03	886	B	0.01	886	B	0.02	886
92	C	0.04	361	C	0.05	361	C	0.03	361	C	0.03	361	C	0.03	361	C	0.03	361	C	0.03	361	C	0.05	361
93	C	0.05	385	C	0.06	385	C	0.04	385	C	0.04	385	C	0.05	385	C	0.06	385	C	0.03	385	C	0.05	385
94	C	0.04	434	C	0.05	434	C	0.04	434	C	0.03	434	C	0.03	434	C	0.05	434	C	0.03	434	C	0.03	434
95	C	0.06	411	C	0.06	411	C	0.04	411	C	0.04	411	C	0.03	411	C	0.06	411	C	0.03	411	C	0.06	411
96	C	0.02	411	C	0.03	411	C	0.02	411	C	0.02	411	C	0.02	411	C	0.01	411	C	0.01	411	C	0.02	411
97	C	0.08	437	C	0.09	437	C	0.07	437	C	0.07	437	C	0.08	437	C	0.08	437	C	0.06	437	C	0.08	437
98	C	0.07	462	C	0.08	462	C	0.06	462	C	0.06	462	C	0.05	462	C	0.08	462	C	0.04	462	C	0.06	462
99	C	0.03	222	C	0.04	222	C	0.03	222	C	0.03	222	C	0.03	222	C	0.03	222	C	0.02	222	C	0.05	222
100	C	0.02	299	C	0.03	299	C	0.02	299	C	0.02	299	C	0.02	299	C	0.03	299	C	0.01	299	C	0.02	299
101	C	0.03	316	C	0.05	316	C	0.03	316	C	0.03	316	C	0.03	316	C	0.05	316	C	0.02	316	C	0.03	316
102	C	0.05	378	C	0.06	378	C	0.04	378	C	0.04	378	C	0.05	378	C	0.06	378	C	0.03	378	C	0.05	378
103	C	0.02	340	C	0.03	340	C	0.02	340	C	0.02	340	C	0.02	340	C	0.03	340	C	0.02	340	C	0.02	340
104	A	0.01	13	A	0.01	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.02	13
105	A	0.02	73	A	0.03	75	A	0.02	75	A	0.02	75	A	0.02	75	A	0.03	75	A	0.01	75	A	0.02	75
106	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
107	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
108	C	0.94	136	C	0.69	136	C	0.6	136	C	0.69	136	C	0.66	136	C	0.8	136	C	0.61	136	C	1.56	136

2.24 1_Algebraic_functions\1.1Binomialproducts\1.1.4Improper\1.1.4.2(cx)^m(ax^j+bxⁿ)^p

Table 26: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
2	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
3	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
4	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25	A	0.	25	A	0.	25	A	0.	25
5	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
6	A	0.	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
7	A	0.	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.02	19
8	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.02	14
9	B	0.01	19	B	0.02	19	B	0.02	19	B	0.02	19	B	0.02	19	B	0.02	19	B	0.01	19	B	0.	19
10	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.	26	A	0.	26
11	A	0.01	14	A	0.01	14	A	0.01	14	A	0.01	14	A	0.02	14	A	0.02	14	A	0.	14	A	0.	14
12	A	0.03	177	A	0.03	177	A	0.02	179	A	0.02	179	A	0.02	179	A	0.03	179	A	0.01	179	A	0.03	179
13	A	0.02	166	A	0.03	166	A	0.02	168	A	0.02	168	A	0.02	168	A	0.03	168	A	0.01	168	A	0.02	168
14	A	0.03	223	A	0.04	223	A	0.04	225	A	0.03	225	A	0.03	225	A	0.05	225	A	0.02	225	A	0.03	225
15	A	0.02	158	A	0.03	158	A	0.02	160	A	0.02	160	A	0.01	160	A	0.03	160	A	0.01	160	A	0.02	160
16	A	0.03	182	A	0.03	182	A	0.02	184	A	0.02	184	A	0.03	184	A	0.03	184	A	0.01	184	A	0.03	184
17	A	0.03	204	A	0.03	204	A	0.02	206	A	0.02	206	A	0.03	206	A	0.03	206	A	0.02	206	A	0.02	206
18	A	0.01	59	A	0.01	59	A	0.01	59	A	0.01	59	A	0.	59	A	0.	59	A	0.01	59	A	0.02	59
19	A	0.01	48	A	0.01	48	A	0.01	48	A	0.01	48	A	0.	48	A	0.02	48	A	0.01	48	A	0.02	48
20	A	0.01	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
21	B	0.02	217	B	0.02	217	B	0.02	217	B	0.02	217	B	0.02	217	B	0.02	217	B	0.01	217	B	0.03	217
22	C	0.06	671	C	0.06	671	C	0.05	671	C	0.05	671	C	0.03	671	C	0.12	671	C	0.03	671	C	0.05	671
23	C	0.03	254	C	0.03	254	C	0.02	254	C	0.02	254	C	0.02	254	C	0.03	254	C	0.02	254	C	0.02	254
24	C	0.02	404	C	0.02	404	C	0.01	405	C	0.01	404	C	0.	404	C	0.02	404	C	0.01	405	C	0.	404
25	C	0.02	516	C	0.03	516	C	0.01	516	C	0.01	516	C	0.02	516	C	0.03	516	C	0.01	516	C	0.02	516
26	B	0.02	136	B	0.02	133	B	0.01	133	B	0.01	133	B	0.	133	B	0.01	136	B	0.01	136	B	0.02	136
27	A	0.04	132	A	0.04	132	A	0.02	134	A	0.03	134	A	0.02	134	A	0.03	134	A	0.02	134	A	0.02	134

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Table 26 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0.04 245	A 0.04 245	A 0.03 247	A 0.03 247	A 0.03 247	A 0.05 247	A 0.02 247	A 0.03 247
29	A 0.08 164	A 0.06 164	A 0.04 164	A 0.04 164	A 0.03 164	A 0.05 164	A 0.03 164	A 0.05 164
30	A 0.06 169	A 0.07 169	A 0.05 169	A 0.05 169	A 0.03 169	A 0.08 169	A 0.04 169	A 0.06 169
31	A 0.06 230	A 0.06 230	A 0.06 230	A 0.05 230	A 0.05 230	A 0.08 230	A 0.04 230	A 0.06 230
32	A 0.02 128	A 0.03 128	A 0.02 128	A 0.02 128	A 0.03 128	A 0.05 128	A 0.01 128	A 0.02 128
33	A 0.06 143	A 0.06 143	A 0.05 143	A 0.05 143	A 0.05 143	A 0.07 143	A 0.03 143	A 0.05 143
34	A 0.12 365	A 0.1 365	A 0.08 365	A 0.08 365	A 0.08 365	A 0.09 365	A 0.06 365	A 0.08 365
35	A 0.06 261	A 0.06 261	A 0.05 261	A 0.05 261	A 0.05 261	A 0.06 261	A 0.03 261	A 0.06 261
36	A 0.04 341	A 0.05 341	A 0.04 341	A 0.04 341	A 0.05 341	A 0.06 341	A 0.02 341	A 0.02 341
37	A 0.02 79	A 0.03 84	A 0.02 84	A 0.02 84	A 0.02 84	A 0.02 84	A 0.01 84	A 0. 84
38	A 0.01 167	A 0.01 167	A 0.01 167	A 0.01 167	A 0.02 167	A 0.02 167	A 0. 167	A 0. 167
39	A 0.01 101	A 0.01 101	A 0.01 101	A 0.01 101	A 0. 101	A 0.01 101	A 0. 101	A 0.02 101
40	A 0.01 77	A 0.02 77	A 0.01 77	A 0.01 77	A 0.02 77	A 0.02 77	A 0.01 77	A 0.02 77
41	A 0.04 159	A 0.04 167	A 0.03 167	A 0.03 167	A 0.03 167	A 0.03 167	A 0.01 167	A 0.02 167
42	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
43	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
44	A 0. 52	A 0.01 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52
45	A 0. 41	A 0.01 41	A 0. 41	A 0. 41	A 0. 41	A 0.01 41	A 0. 41	A 0. 41
46	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
47	A 0.01 29	A 0.02 29	A 0.01 29	A 0.01 29	A 0.02 29	A 0.02 29	A 0. 29	A 0. 29
48	A 0.01 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57
49	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
50	A 0.01 30	A 0.02 30	A 0.01 30	A 0.01 30	A 0.02 30	A 0.02 30	A 0. 30	A 0. 30
51	A 0.01 43	A 0.02 43	A 0.01 43	A 0.01 43	A 0.02 43	A 0.02 43	A 0. 43	A 0.02 43
52	A 0. 27	A 0.01 27	A 0. 27	A 0. 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27
53	A 0.01 52	A 0.01 51	A 0.01 51	A 0.01 51	A 0. 51	A 0.02 52	A 0.01 51	A 0. 52
54	A 0.01 55	A 0.01 55	A 0. 55	A 0.01 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55
55	A 0.02 95	A 0.02 95	A 0.01 95	A 0.01 95	A 0.02 95	A 0.02 95	A 0.01 95	A 0.02 95

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Table 26 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	A 0.02 61	A 0.03 65	A 0.02 65	A 0.02 65	A 0.01 64	A 0.03 65	A 0.01 65	A 0.02 65
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	A 0.01 84	A 0.01 84	A 0.01 84	A 0.01 84	A 0.02 84	A 0. 84	A 0.01 84	A 0.02 84
59	A 0.01 31	B 0.01 57	B 0.01 57	B 0.01 57	B 0.02 57	B 0.02 57	B 0. 57	B 0. 57
60	A 0.01 48	A 0.01 48	A 0.01 48	A 0.01 48	A 0.01 48	A 0.02 48	A 0.01 48	A 0.02 48
61	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.02 27	A 0. 27	A 0.02 27
62	A 0.02 248	A 0.04 248	A 0.03 250	A 0.03 250	A 0.02 250	A 0.05 250	A 0.02 250	A 0.03 250
63	A 0.01 676	A 0.02 676	A 0.01 682	A 0.01 682	A 0. 682	A 0.05 682	A 0.01 682	A 0.02 682
64	C 0.1 3347	C 0.12 3347	C 0.08 3347	C 0.08 3347	C 0.08 3347	C 0.19 3347	C 0.07 3347	C 0.11 3347
65	C 0.04 480	C 0.05 480	C 0.03 480	C 0.03 480	C 0.03 480	C 0.09 480	C 0.02 480	C 0.03 480
66	C 0.12 1795	C 0.12 1795	C 0.08 1795	C 0.08 1795	C 0.08 1795	C 0.2 1795	C 0.06 1795	C 0.09 1795
67	B 0.01 56	B 0.01 56	B 0.01 56	B 0.01 56	B 0. 56	B 0.02 56	B 0. 56	B 0.02 56
68	A 0.01 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0. 57	A 0. 57	A 0. 57	A 0. 57
69	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
70	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
71	B 0. 135	B 0.01 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135
72	B 0. 135	B 0.01 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135
73	B 0. 135	B 0.01 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135
74	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0.02 135	B 0. 135	B 0. 135
75	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135	B 0. 135
76	B 0.02 41	B 0.02 41	B 0.01 41	B 0.01 41	B 0.02 41	B 0.02 41	B 0.01 41	B 0.05 41
77	A 0.03 39	A 0.04 39	A 0.03 39	A 0.03 39	A 0.02 39	A 0.02 39	A 0.03 39	A 0.05 39
78	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
79	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
80	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
81	A 0.04 56	A 0.04 55	A 0.02 56	A 0.02 55	A 0.02 56	A 0.06 55	A 0.01 56	A 0.02 56
82	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
83	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 26 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
84	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
85	C 0.21 471	C 0.18 471	C 0.14 471	C 0.15 471	C 0.12 471	C 0.17 471	C 0.11 471	C 0.14 471
86	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
87	A 0.01 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0.02 29	A 0.01 29	A 0. 29	A 0. 29
88	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
89	A 0.05 40	A 0.05 40	A 0.04 40	A 0.05 40	F 0 0	F 0 0	F 0 0	F 0 0
90	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
91	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.25 $1_Algebraic_functions\backslash 1.1Binomialproducts\backslash 1.1.4Improper\backslash 1.1.4.3(ex)^m(ax^j+bx^k)^p(c+dx^n)^q$

Table 27: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
2	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
3	A 0.01 26	A 0.01 26	A 0.01 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
4	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25
5	A 0.01 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0.02 28	A 0. 28	A 0. 28	A 0. 28
6	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0.02 52	A 0. 52	A 0. 52
7	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73
8	A 0.01 75	A 0.01 75	A 0.01 75	A 0.01 75	A 0.02 75	A 0. 75	A 0. 75	A 0. 75
9	A 0.01 64	A 0.01 64	A 0.01 64	A 0.01 64	A 0. 64	A 0. 64	A 0. 64	A 0.02 64
10	A 0.01 75	A 0.02 75	A 0.01 75	A 0.01 75	A 0.02 75	A 0.02 75	A 0. 75	A 0. 75
11	A 0. 110	A 0.01 110	A 0. 110	A 0.01 110	A 0. 110	A 0.02 110	A 0. 110	A 0. 110
12	A 0. 86	A 0.01 86	A 0. 86	A 0.01 86	A 0. 86	A 0. 86	A 0. 86	A 0. 86
13	A 0. 40	A 0.01 40	A 0. 40	A 0. 40	A 0. 40	A 0.02 40	A 0. 40	A 0. 40

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Table 27 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
14	A 0.01 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0. 81	A 0. 81	A 0. 81	A 0.02 81
15	A 0.02 132	A 0.02 132	A 0.02 132	A 0.02 132	A 0.02 132	A 0.02 132	A 0.01 132	A 0. 132
16	A 0.01 105	A 0.02 105	A 0.01 105	A 0.01 105	A 0.02 105	A 0.02 105	A 0. 105	A 0. 105
17	A 0.01 82	A 0.02 82	A 0.01 82	A 0.01 82	A 0.01 82	A 0.02 82	A 0. 82	A 0.02 82
18	A 0.02 86	A 0.02 86	A 0.02 86	A 0.02 86	A 0. 86	A 0.02 86	A 0. 86	A 0.02 86
19	A 0.02 114	A 0.03 114	A 0.02 114	A 0.02 114	A 0.02 114	A 0.02 114	A 0. 114	A 0. 114
20	A 0.02 136	A 0.02 136	A 0.02 136	A 0.02 136	A 0.02 136	A 0.02 136	A 0.01 136	A 0.02 136
21	A 0.01 39	A 0.02 39	A 0.01 39	A 0.01 39	A 0. 39	A 0. 39	A 0. 39	A 0.02 39
22	A 0.01 90	A 0.02 112	A 0.01 112	A 0.01 112	A 0. 112	A 0.02 112	A 0. 112	A 0. 112
23	A 0.02 150	A 0.03 150	A 0.02 150	A 0.02 150	A 0.02 150	A 0.02 150	A 0.01 150	A 0.02 150
24	A 0.01 94	A 0.01 94	A 0.01 94	A 0.01 94	A 0. 94	A 0. 94	A 0.01 94	A 0. 94
25	A 0.02 249	A 0.03 249	A 0.02 249	A 0.02 249	A 0.02 249	A 0.03 249	A 0.02 249	A 0.02 249
26	A 0.02 142	A 0.03 142	A 0.02 142	A 0.02 142	A 0.02 142	A 0.02 142	A 0.01 142	A 0.03 142
27	A 0.01 142	A 0.01 142	A 0.01 142	A 0.01 142	A 0.02 142	A 0. 142	A 0.01 142	A 0. 142
28	A 0.01 45	A 0.01 45	A 0. 45	A 0.01 45	A 0. 45	A 0. 45	A 0. 45	A 0.02 45
29	A 0.02 172	A 0.02 172	A 0.02 172	A 0.02 172	A 0.02 172	A 0.02 172	A 0.01 172	A 0.02 172
30	A 0.15 400	A 0.15 400	A 0.14 400	A 0.14 400	A 0.14 400	A 0.17 400	A 0.12 400	A 0.19 400
31	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47	A 0.01 47	A 0.02 47
32	A 0.01 89	A 0.01 89	A 0.01 89	A 0.01 89	A 0. 89	A 0. 89	A 0.01 89	A 0. 89
33	A 0.01 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.02 72	A 0.02 72	A 0.01 72	A 0.02 72
34	A 0.01 118	A 0.01 118	A 0.01 118	A 0.01 118	A 0.02 118	A 0. 118	A 0.01 118	A 0.02 118
35	A 0.02 79	A 0.02 79	A 0.01 79	A 0.01 79	A 0.02 79	A 0.02 79	A 0.01 79	A 0.02 79
36	A 0.01 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0. 32	A 0.02 32	A 0. 32	A 0. 32
37	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0.01 32	A 0.01 32	A 0. 32	A 0.02 32
38	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0. 80	A 0.01 80	A 0.01 80	A 0.02 80
39	A 0.02 308	A 0.07 308	A 0.02 308	A 0.02 308	A 0.02 308	A 0.02 308	A 0.01 308	A 0.02 308
40	A 0.01 280	A 0.02 280	A 0.01 280	A 0.01 280	A 0.02 280	A 0.02 280	A 0.01 280	A 0.02 280
41	A 0.02 305	A 0.02 313	A 0.02 313	A 0.02 313	A 0. 313	A 0.02 313	A 0.01 313	A 0.02 313

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Table 27 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
42	A 0.02 305	A 0.02 313	A 0.02 313	A 0.02 313	A 0.02 313	A 0.03 313	A 0.01 313	A 0.02 313
43	A 0.03 363	A 0.03 360	A 0.02 360	A 0.02 360	A 0.02 360	A 0.03 360	A 0.01 360	A 0.02 360
44	A 0.04 390	A 0.04 388	A 0.02 388	A 0.03 388	A 0.01 388	A 0.03 388	A 0.01 388	A 0.02 388
45	A 0.08 283	A 0.08 283	A 0.06 283	A 0.06 283	A 0.06 283	A 0.06 283	A 0.05 283	A 0.05 283
46	A 0.04 257	A 0.04 257	A 0.03 257	A 0.04 257	A 0.03 257	A 0.05 257	A 0.02 257	A 0.03 257
47	A 0.05 239	A 0.05 239	A 0.04 239	A 0.04 239	A 0.03 239	A 0.05 239	A 0.03 239	A 0.05 239
48	A 0.06 422	A 0.07 422	A 0.06 422	A 0.06 422	A 0.05 422	A 0.08 422	A 0.04 422	A 0.06 420
49	A 0.05 255	A 0.05 255	A 0.04 255	A 0.04 255	A 0.03 255	A 0.05 255	A 0.03 255	A 0.05 255
50	A 0.09 470	A 0.07 470	A 0.06 470	A 0.06 470	A 0.05 470	A 0.08 470	A 0.05 470	A 0.06 470
51	A 0.05 307	A 0.04 307	A 0.03 307	A 0.03 307	A 0.03 307	A 0.05 307	A 0.02 307	A 0.03 307
52	A 0.04 219	A 0.05 219	A 0.04 219	A 0.04 219	A 0.03 219	A 0.06 219	A 0.03 219	A 0.03 219
53	A 0.07 443	A 0.08 443	A 0.06 443	A 0.06 443	A 0.05 443	A 0.08 443	A 0.04 443	A 0.06 443
54	A 0.06 255	A 0.08 255	A 0.05 255	A 0.05 255	A 0.04 255	A 0.06 255	A 0.03 255	A 0.05 255
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
56	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.26 $1_Algebraic_functions\backslash 1.2Trinomialproducts\backslash 1.2.1Quadratic\backslash 1.2.1.2(d+ex)^m(a+bx+cx^2)^p$

Table 28: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 91	A 0.02 91	A 0.02 91	A 0.02 91	A 0.14 91	A 0.14 91	A 0.02 91	A 0.02 91
2	A 0.01 51	A 0.02 51	A 0.01 51	A 0.01 51	A 0.03 51	A 0.01 51	A 0.01 51	A 0. 51

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
3	A	0.01	82	A	0.01	82	A	0.	82	A	0.01	82	A	0.02	82	A	0.01	82	A	0.	82	A	0.02	82
4	A	0.	46	A	0.01	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.02	46
5	A	0.	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
6	A	0.	28	A	0.01	28	A	0.	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.02	28
7	A	0.	33	A	0.01	33	A	0.	33	A	0.	33	A	0.01	33	A	0.	33	A	0.	33	A	0.	33
8	A	0.01	21	A	0.02	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.02	21
9	A	0.	25	A	0.01	25	A	0.	25	A	0.	25	A	0.04	25	A	0.02	25	A	0.	25	A	0.	25
10	A	0.	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	A	0.01	51	A	0.01	51	A	0.	51	A	0.	51	A	0.14	51	A	0.05	51	A	0.01	51	A	0.	51
14	A	0.	51	A	0.01	51	A	0.	51	A	0.	51	A	0.	51	A	0.	51	A	0.	51	A	0.	51
15	A	0.	27	A	0.01	27	A	0.	27	A	0.	27	A	0.02	27	A	0.02	27	A	0.01	27	A	0.02	27
16	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
17	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.02	25	A	0.01	25	A	0.	25	A	0.	25
18	B	0.	636	B	0.	636	B	0.	636	B	0.	636	B	0.01	636	B	0.01	636	B	0.	636	B	0.	636
19	B	0.	636	B	0.	636	B	0.	636	B	0.	636	B	0.	636	B	0.	636	B	0.	636	B	0.	636
20	A	0.	26	A	0.01	26	A	0.01	26	A	0.	26	A	0.01	26	A	0.02	26	A	0.	26	A	0.	24
21	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35
22	A	0.02	31	A	0.02	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.01	31	A	0.	31	A	0.	31
23	A	0.01	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50
24	A	0.01	30	A	0.01	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30
25	A	0.01	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26
27	B	0.01	51	B	0.02	51	B	0.01	51	B	0.01	51	B	0.01	51	B	0.01	51	B	0.01	51	B	0.	51
28	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 28 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	A	0.01	129	A	0.01	129	A	0.01	129	A	0.01	129	A	0.04	129	A	0.02	129	A	0.01	129	A	0.02	129
33	A	0.01	44	A	0.01	44	A	0.	44	A	0.01	44	A	0.01	44	A	0.	44	A	0.	44	A	0.	44
34	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.02	66
35	A	0.01	99	A	0.01	99	A	0.01	99	A	0.01	99	A	0.	99	A	0.01	99	A	0.	99	A	0.02	99
36	B	0.01	149	B	0.01	149	B	0.01	149	B	0.01	149	B	0.01	149	B	0.	149	B	0.	149	B	0.02	149
37	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.	44
38	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.02	55
39	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.01	22	A	0.	22	A	0.	22	A	0.02	22
40	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66
41	A	0.01	93	A	0.01	93	A	0.01	93	A	0.	93	A	0.01	93	A	0.01	93	A	0.	93	A	0.02	93
42	A	0.01	47	A	0.01	47	A	0.01	47	A	0.01	47	A	0.01	47	A	0.	47	A	0.	47	A	0.02	47
43	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.02	53
44	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.02	66
45	B	0.01	123	B	0.01	123	B	0.01	123	B	0.01	123	B	0.01	123	B	0.01	123	B	0.	123	B	0.02	123
46	A	0.	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35
47	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.	55	A	0.02	55
48	A	0.	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
49	A	0.03	72	A	0.03	72	A	0.02	72	A	0.02	72	A	0.12	72	A	0.02	72	A	0.02	72	A	0.02	72
50	A	0.02	37	A	0.02	37	A	0.01	37	A	0.01	37	A	0.03	37	A	0.01	37	A	0.01	37	A	0.02	37
51	A	0.02	90	A	0.03	90	A	0.02	90	A	0.02	90	A	0.02	90	A	0.02	90	A	0.01	90	A	0.02	90
52	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
53	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
56	A	0.	9	A	0.01	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
57	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
58	A	0.02	370	A	0.02	370	A	0.01	370	A	0.02	370	A	0.01	370	A	0.01	370	A	0.01	370	A	0.	370

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
59	A	0.01	274	A	0.01	274	A	0.01	274	A	0.01	274	A	0.01	274	A	0.01	274	A	0.	274	A	0.02	274
60	A	0.01	103	A	0.02	103	A	0.02	103	A	0.02	103	A	0.01	103	A	0.01	103	A	0.	103	A	0.02	103
61	A	0.02	188	A	0.02	188	A	0.02	188	A	0.02	188	A	0.01	188	A	0.01	188	A	0.	188	A	0.02	188
62	A	0.02	106	A	0.02	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.	106	A	0.	106
63	A	0.01	43	A	0.02	43	A	0.01	43	A	0.01	43	A	0.01	43	A	0.01	43	A	0.	43	A	0.	43
64	A	0.03	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.01	132	A	0.	132
65	A	0.02	329	A	0.02	329	A	0.02	329	A	0.02	329	A	0.02	329	A	0.02	329	A	0.01	329	A	0.02	329
66	A	0.02	238	A	0.02	238	A	0.02	238	A	0.01	238	A	0.01	238	A	0.02	238	A	0.01	238	A	0.02	238
67	A	0.02	73	A	0.02	73	A	0.01	73	A	0.01	73	A	0.01	73	A	0.01	73	A	0.01	73	A	0.	73
68	B	0.02	444	B	0.02	444	B	0.02	444	B	0.02	444	B	0.02	444	B	0.02	444	B	0.01	444	B	0.02	444
69	B	0.02	287	B	0.02	287	B	0.01	287	B	0.01	287	B	0.01	287	B	0.01	287	B	0.01	287	B	0.01	287
70	A	0.01	157	A	0.01	157	A	0.01	157	A	0.01	157	A	0.01	157	A	0.01	157	A	0.01	157	A	0.02	157
71	B	0.04	4819	B	0.04	4819	B	0.03	4819	B	0.03	4819	B	0.04	4819	B	0.03	4819	B	0.02	4819	B	0.02	4819
72	B	0.01	239	B	0.02	239	B	0.01	239	B	0.01	239	B	0.01	239	B	0.01	239	B	0.01	239	B	0.01	239
73	B	0.02	3466	B	0.02	3466	B	0.02	3466	B	0.02	3466	B	0.01	3466	B	0.01	3466	B	0.01	3466	B	0.01	3466
74	B	0.01	321	B	0.01	321	B	0.01	321	B	0.01	321	B	0.01	321	B	0.01	321	B	0.01	321	B	0.01	321
75	A	0.	134	A	0.01	134	A	0.	134	A	0.	134	A	0.	134	A	0.	134	A	0.	134	A	0.	134
76	B	0.02	2534	B	0.02	2534	B	0.02	2534	B	0.01	2534	B	0.01	2534	B	0.01	2534	B	0.01	2534	B	0.01	2534
77	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78
78	A	0.01	51	A	0.01	51	A	0.01	51	A	0.01	51	A	0.01	51	A	0.01	51	A	0.01	51	A	0.	51
79	B	0.03	1857	B	0.02	1857	B	0.02	1857	B	0.02	1857	B	0.02	1857	B	0.02	1857	B	0.02	1857	B	0.02	1857
80	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.	46
81	A	0.02	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.	286
82	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286
83	B	0.03	237	B	0.03	237	B	0.03	237	B	0.03	237	B	0.02	237	B	0.02	237	B	0.01	237	B	0.	237
84	A	0.03	167	B	0.03	321	B	0.02	321	B	0.03	321	B	0.02	321	B	0.02	321	B	0.01	321	B	0.02	321
85	A	0.04	280	A	0.05	280	A	0.04	280	A	0.04	280	A	0.03	280	A	0.03	280	A	0.02	280	A	0.03	280
86	B	0.04	703	B	0.04	1567	B	0.03	1567	B	0.03	1567	B	0.02	1567	B	0.03	1567	B	0.01	1567	B	0.03	1567

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
87	B	0.04	521	B	0.04	1065	B	0.03	1065	B	0.02	1065	B	0.02	1065	B	0.03	1065	B	0.01	1065	B	0.02	1065
88	A	0.03	414	B	0.04	928	B	0.03	928	B	0.03	928	B	0.02	928	B	0.03	928	B	0.01	928	B	0.02	928
89	A	0.04	436	B	0.04	655	B	0.02	655	B	0.02	655	B	0.02	655	B	0.03	655	B	0.01	655	B	0.03	655
90	B	0.06	681	B	0.06	681	B	0.04	681	B	0.04	681	B	0.07	681	B	0.07	681	B	0.04	681	B	0.05	681
91	B	0.08	1359	B	0.09	1359	B	0.07	1359	B	0.07	1359	B	0.07	1359	B	0.08	1359	B	0.05	1359	B	0.08	1359
92	B	0.05	1728	B	0.06	1728	B	0.04	1728	B	0.04	1728	B	0.04	1728	B	0.05	1728	B	0.04	1728	B	0.06	1728
93	B	0.07	918	B	0.08	918	B	0.06	918	B	0.06	918	B	0.06	918	B	0.06	918	B	0.04	918	B	0.05	918
94	A	0.05	113	A	0.05	113	A	0.04	113	A	0.04	113	A	0.04	113	A	0.04	113	A	0.03	113	A	0.05	113
95	B	0.17	1912	B	0.17	1912	B	0.14	1912	B	0.14	1912	B	0.17	1912	B	0.18	1912	B	0.12	1912	B	0.16	1912
96	B	0.15	1099	B	0.16	1099	B	0.13	1099	B	0.13	1099	B	0.13	1098	B	0.14	1099	B	0.1	1098	B	0.16	1098
97	B	0.03	215	B	0.03	215	B	0.02	215	B	0.02	215	B	0.06	215	B	0.06	215	B	0.04	215	B	0.03	215
98	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
99	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
100	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
101	A	0.	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97
102	A	0.	131	A	0.	131	A	0.	131	A	0.	131	A	0.	131	A	0.	131	A	0.	131	A	0.	131
103	A	0.	88	A	0.	88	A	0.	88	A	0.	88	A	0.	88	A	0.	88	A	0.	88	A	0.	88
104	A	0.	241	A	0.	241	A	0.	241	A	0.	241	A	0.	241	A	0.	241	A	0.	241	A	0.	241
105	A	0.01	218	A	0.01	218	A	0.01	218	A	0.01	218	A	0.01	218	A	0.01	218	A	0.	218	A	0.	218
106	A	0.02	233	A	0.02	233	A	0.01	233	A	0.01	233	A	0.01	233	A	0.01	233	A	0.01	233	A	0.02	233
107	A	0.01	133	B	0.01	180	B	0.01	180	B	0.01	180	B	0.01	180	B	0.01	180	B	0.	180	B	0.02	180
108	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.01	260	A	0.02	260
109	A	0.01	164	A	0.01	164	A	0.01	164	A	0.01	164	A	0.01	164	A	0.01	164	A	0.01	164	A	0.02	164
110	A	0.01	122	A	0.01	122	A	0.01	122	A	0.01	122	A	0.01	122	A	0.01	122	A	0.01	122	A	0.02	122
111	B	0.02	381	B	0.02	381	B	0.01	381	B	0.01	381	B	0.01	381	B	0.01	381	B	0.01	381	B	0.02	381
112	A	0.02	205	A	0.02	205	A	0.02	205	A	0.02	205	A	0.01	205	A	0.02	205	A	0.01	205	A	0.03	205
113	B	0.02	1796	B	0.02	1796	B	0.01	1796	B	0.01	1796	B	0.01	1796	B	0.01	1796	B	0.01	1796	B	0.	1796
114	B	0.02	3789	B	0.03	3789	B	0.02	3789	B	0.02	3789	B	0.02	3789	B	0.02	3789	B	0.01	3789	B	0.02	3789

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
115	A	0.02	76	A	0.01	76	A	0.01	76	A	0.01	76	A	0.01	76	A	0.01	76	A	0.01	76	A	0.02	76
116	A	0.	27	A	0.01	27	A	0.	27	A	0.	27	A	0.01	27	A	0.	27	A	0.	27	A	0.02	27
117	B	0.02	400	B	0.02	400	B	0.01	400	B	0.01	400	B	0.01	400	B	0.01	400	B	0.01	400	B	0.02	400
118	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.	55
119	A	0.01	17	A	0.01	17	A	0.	17	A	0.	17	A	0.01	17	A	0.01	17	A	0.	17	A	0.	17
120	A	0.01	17	A	0.01	17	A	0.01	17	A	0.01	17	A	0.01	17	A	0.01	17	A	0.	17	A	0.02	17
121	A	0.	41	A	0.01	41	A	0.	41	A	0.01	41	A	0.	41	A	0.01	41	A	0.	41	A	0.	41
122	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.02	106
123	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.01	106	A	0.02	106
124	B	0.07	291	B	0.07	291	B	0.06	291	B	0.06	291	B	0.05	291	B	0.05	291	B	0.02	291	B	0.	291
125	B	0.11	287	B	0.06	586	B	0.05	586	B	0.05	586	B	0.05	586	B	0.05	586	B	0.02	586	B	0.03	586
126	F	0	0	B	0.57	4123	B	0.52	4123	B	0.76	4123	F	0	0	F	0	0	F	0	0	F	0	0
127	B	0.25	10304	B	0.82	19499	B	0.74	19499	B	0.76	19499	F	0	0	F	0	0	F	0	0	F	0	0
128	B	0.14	1309	B	0.13	1309	B	0.1	1309	B	0.1	1309	B	0.11	1309	B	4.5	1309	B	0.08	1309	B	0.11	1309
129	B	0.09	3409	B	0.09	3409	B	0.07	3409	B	0.07	3409	B	0.08	3411	B	0.22	3411	B	0.06	3409	B	0.08	3411
130	B	0.07	1731	B	0.08	1731	B	0.05	1731	B	0.05	1731	B	0.06	1730	B	0.37	1731	B	0.04	1730	B	0.06	1731
131	B	0.09	1168	B	0.09	1168	B	0.07	1168	B	0.07	1168	B	0.07	1168	B	0.41	1168	B	0.05	1169	B	0.08	1168
132	B	0.04	1597	B	0.05	1597	B	0.04	1597	B	0.03	1597	B	0.04	1597	B	0.04	1597	B	0.03	1597	B	0.05	1597
133	B	0.11	5277	B	0.11	5277	B	0.08	5277	B	0.09	5277	B	0.1	5277	B	0.41	5277	B	0.07	5277	B	0.11	5277
134	B	0.08	1970	B	0.08	1970	B	0.06	1970	B	0.06	1970	B	0.07	1970	B	0.43	1970	B	0.04	1970	B	0.08	1970
135	B	0.05	1736	B	0.06	1736	B	0.04	1736	B	0.04	1736	B	0.04	1736	B	0.05	1736	B	0.03	1736	B	0.05	1736
136	B	0.05	978	B	0.06	978	B	0.04	978	B	0.04	978	B	0.04	978	B	0.17	978	B	0.03	978	B	0.03	978
137	A	0.05	200	A	0.06	200	A	0.05	200	A	0.04	200	A	0.06	200	A	0.23	200	A	0.03	200	A	0.03	200
138	B	0.11	1167	B	0.11	1167	B	0.08	1167	B	0.08	1167	B	0.08	1167	B	0.53	1167	B	0.06	1167	B	0.09	1167
139	B	0.17	2278	B	0.12	2278	B	0.09	2278	B	0.09	2279	B	0.1	2278	B	0.47	2278	B	0.07	2278	B	0.11	2279
140	B	0.14	2673	B	0.13	2673	B	0.1	2673	B	0.1	2673	B	0.11	2673	B	0.42	2673	B	0.08	2673	B	0.11	2673
141	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
142	C	0.11	49	C	0.1	49	C	0.07	49	C	0.1	49	C	0.31	49	C	10.1	49	C	0.06	49	C	0.09	49

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
143	C	0.08	43	C	0.08	43	C	0.06	43	C	0.06	43	C	0.06	43	C	0.1	43	C	0.04	43	C	0.05	43
144	C	0.06	37	C	0.07	37	C	0.05	37	C	0.05	37	C	0.05	37	C	0.17	37	C	0.03	37	C	0.08	37
145	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
146	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
147	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
148	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
149	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
150	A	0.	61	A	0.01	61	A	0.	61	A	0.	61	A	0.	61	A	0.07	61	A	0.	61	A	0.	61
151	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
152	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.	34	A	0.	34
153	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
154	A	0.02	81	A	0.02	81	A	0.01	81	A	0.02	81	A	0.02	81	A	0.01	81	A	0.01	81	A	0.	81
155	A	0.02	126	A	0.02	126	A	0.02	126	A	0.02	126	A	0.02	126	A	0.02	126	A	0.01	126	A	0.02	126
156	A	0.02	114	A	0.02	114	A	0.02	114	A	0.02	114	A	0.02	114	A	0.26	114	A	0.01	114	A	0.03	114
157	A	0.01	91	A	0.02	91	A	0.01	91	A	0.01	91	A	0.01	91	A	0.01	91	A	0.01	91	A	0.02	91
158	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.02	71
159	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.	36
160	A	0.03	134	A	0.03	134	A	0.02	134	A	0.02	134	A	0.02	134	A	0.02	134	A	0.01	134	A	0.02	134
161	A	0.01	111	A	0.02	111	A	0.01	111	A	0.01	111	A	0.01	111	A	0.01	111	A	0.01	111	A	0.02	111
162	B	0.02	158	B	0.02	158	B	0.01	158	B	0.01	158	B	0.02	158	B	0.01	158	B	0.01	158	B	0.02	158
163	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.02	66
164	A	0.02	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.02	77
165	B	0.02	454	B	0.02	454	B	0.01	454	B	0.01	454	B	0.01	454	B	0.01	454	B	0.01	454	B	0.02	454
166	A	0.01	55	A	0.02	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.02	55
167	A	0.01	29	A	0.01	29	A	0.	29	A	0.	29	A	0.01	29	A	0.02	29	A	0.	29	A	0.	29
168	A	0.01	20	A	0.01	20	A	0.	20	A	0.	20	A	0.01	20	A	0.	20	A	0.	20	A	0.	20
169	A	0.01	50	A	0.01	50	A	0.01	50	A	0.01	50	A	0.01	50	A	0.01	50	A	0.01	50	A	0.02	50
170	A	0.04	132	A	0.03	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.03	132	A	0.02	132	A	0.03	132

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
171	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.02	44
172	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.02	55
173	A	0.02	110	A	0.02	110	A	0.01	110	A	0.01	110	A	0.01	110	A	0.01	110	A	0.01	110	A	0.02	110
174	A	0.02	143	A	0.02	143	A	0.01	143	A	0.02	143	A	0.02	143	A	0.02	143	A	0.01	143	A	0.02	143
175	A	0.	15	A	0.01	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
176	A	0.01	44	A	0.01	44	A	0.	44	A	0.01	44	A	0.	44	A	0.	44	A	0.	44	A	0.02	44
177	A	0.04	97	A	0.03	97	A	0.03	97	A	0.03	97	A	0.02	97	A	0.12	97	A	0.02	97	A	0.03	97
178	A	0.03	190	A	0.03	190	A	0.02	190	A	0.02	190	A	0.03	190	A	0.03	190	A	0.02	190	A	0.03	190
179	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.02	55
180	A	0.01	44	A	0.01	44	A	0.01	44	A	0.	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.	44
181	A	0.04	259	A	0.04	259	A	0.03	259	A	0.03	259	A	0.03	259	A	0.03	259	A	0.02	259	A	0.05	259
182	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.01	55	A	0.	55
183	A	0.02	74	A	0.03	74	A	0.02	74	A	0.02	74	A	0.02	74	A	0.02	74	A	0.01	74	A	0.02	74
184	A	0.02	133	A	0.03	133	A	0.02	133	A	0.02	133	A	0.03	133	A	0.03	133	A	0.02	133	A	0.03	133
185	A	0.01	44	A	0.01	44	A	0.	44	A	0.	44	A	0.01	44	A	0.	44	A	0.	44	A	0.	44
186	A	0.04	152	A	0.04	152	A	0.03	152	A	0.03	152	A	0.04	152	A	0.04	152	A	0.02	152	A	0.03	152
187	A	0.02	66	A	0.03	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.01	66	A	0.02	66
188	A	0.03	125	A	0.03	125	A	0.02	125	A	0.02	125	A	0.03	125	A	0.03	125	A	0.02	125	A	0.02	125
189	B	0.02	88	B	0.03	88	B	0.02	88	B	0.02	88	B	0.02	88	B	0.03	88	B	0.02	88	B	0.02	88
190	A	0.01	60	A	0.01	60	A	0.01	60	A	0.01	60	A	0.01	60	A	0.01	60	A	0.01	60	A	0.02	60
191	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35
192	A	0.	30	A	0.01	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30
193	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
194	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.02	30
195	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.02	52
196	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
197	A	0.12	75	A	0.11	75	A	0.07	75	A	0.07	75	A	0.11	75	A	0.45	75	A	0.05	75	A	0.12	75
198	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
199	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
200	A	0.	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
201	A	0.01	42	A	0.01	42	A	0.01	42	A	0.01	42	A	0.01	42	A	0.	42	A	0.	42
202	A	0.01	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.	74	A	0.	74
203	A	0.01	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.	74	A	0.02	74
204	B	0.01	222	B	0.01	222	B	0.01	222	B	0.01	222	B	0.01	222	B	0.	222	B	0.	222
205	A	0.02	195	A	0.02	195	A	0.01	195	A	0.01	195	A	0.01	195	A	0.01	195	A	0.	195
206	A	0.01	121	A	0.02	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.	121
207	B	0.01	170	B	0.01	170	B	0.01	170	B	0.	170	B	0.	170	B	0.	170	B	0.02	170
208	A	0.01	57	A	0.01	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57
209	A	0.01	78	A	0.02	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.	78
210	B	0.02	479	B	0.02	871	B	0.01	871	B	0.01	871	B	0.01	871	B	0.01	871	B	0.01	871
211	A	0.03	144	A	0.03	144	A	0.02	144	A	0.02	144	A	0.02	144	A	0.02	144	A	0.01	144
212	B	0.02	181	B	0.02	264	B	0.01	264	B	0.01	264	B	0.01	264	B	0.02	264	B	0.01	264
213	A	0.02	173	B	0.02	815	B	0.01	815	B	0.01	815	B	0.01	815	B	0.01	815	B	0.	815
214	A	0.03	301	A	0.03	222	A	0.02	222	A	0.02	222	A	0.02	222	A	0.02	222	A	0.01	222
215	B	0.03	413	B	0.03	413	B	0.02	413	B	0.02	413	B	0.02	413	B	0.02	413	B	0.02	413
216	B	0.02	230	B	0.02	230	B	0.01	230	B	0.01	230	B	0.01	230	B	0.01	230	B	0.01	230
217	B	0.03	340	B	0.03	340	B	0.01	340	B	0.02	340	B	0.02	340	B	0.02	340	B	0.01	340
218	B	0.01	430	B	0.01	430	B	0.01	430	B	0.01	430	B	0.01	430	B	0.01	430	B	0.01	430
219	B	0.02	622	B	0.03	622	B	0.02	622	B	0.02	622	B	0.02	622	B	0.02	622	B	0.01	622
220	A	0.01	38	A	0.01	38	A	0.01	38	A	0.01	38	A	0.01	38	A	0.01	38	A	0.01	38
221	A	0.01	70	A	0.02	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70	A	0.01	70
222	A	0.02	133	A	0.02	133	A	0.01	133	A	0.01	133	A	0.01	133	A	0.01	133	A	0.01	133
223	A	0.02	91	A	0.01	91	A	0.01	91	A	0.01	91	A	0.01	91	A	0.01	91	A	0.01	91
224	B	0.01	660	B	0.02	660	B	0.01	660	B	0.01	660	B	0.01	660	B	0.01	660	B	0.01	660
225	B	0.02	900	B	0.03	900	B	0.01	900	B	0.01	900	B	0.02	900	B	0.02	900	B	0.01	900
226	B	0.08	1020	B	0.1	1020	B	0.04	1020	B	0.04	1020	B	0.04	1020	B	0.04	1020	B	0.03	1020

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
227	B	0.16	1080	B	0.16	1080	B	0.07	1080	B	0.07	1080	B	0.07	1080	B	0.08	1080	B	0.05	1080	B	0.09	1080
228	A	0.	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
229	B	0.02	340	B	0.03	340	B	0.02	340	B	0.02	340	B	0.02	340	B	0.02	340	B	0.02	340	B	0.03	340
230	B	0.03	531	B	0.03	531	B	0.02	531	B	0.02	531	B	0.02	531	B	0.02	531	B	0.02	531	B	0.03	531
231	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.02	39
232	B	0.02	207	B	0.02	207	B	0.01	207	B	0.01	207	B	0.01	207	B	0.02	207	B	0.01	207	B	0.02	207
233	A	0.01	46	A	0.01	46	A	0.	46	A	0.	46	A	0.01	46	A	0.	46	A	0.	46	A	0.	46
234	A	0.01	44	A	0.01	44	A	0.	44	A	0.01	44	A	0.	44	A	0.	44	A	0.	44	A	0.	44
235	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.	96
236	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.02	96
237	A	0.01	173	A	0.01	173	A	0.01	173	A	0.01	173	A	0.01	173	A	0.01	173	A	0.01	173	A	0.02	173
238	B	0.02	922	B	0.02	922	B	0.02	922	B	0.02	922	B	0.01	922	B	0.04	918	B	0.01	918	B	0.05	918
239	B	0.02	369	B	0.02	369	B	0.02	369	B	0.02	369	B	0.02	369	B	0.02	367	B	0.01	367	B	0.03	367
240	B	0.02	327	B	0.03	990	B	0.02	990	B	0.02	990	B	0.02	990	B	0.02	986	B	0.01	986	B	0.02	986
241	B	0.02	344	B	0.02	344	B	0.02	344	B	0.02	344	B	0.02	344	B	0.01	342	B	0.01	342	B	0.02	342
242	B	0.03	404	B	0.04	729	B	0.02	729	B	0.03	729	B	0.03	729	B	0.02	727	B	0.01	727	B	0.02	727
243	B	0.03	857	B	0.03	3444	B	0.02	3444	B	0.02	3444	B	0.02	3444	B	0.02	3435	B	0.01	3435	B	0.03	3435
244	B	0.02	431	B	0.02	1207	B	0.02	1207	B	0.02	1207	B	0.02	1207	B	0.02	1204	B	0.01	1204	B	0.02	1204
245	B	0.02	419	B	0.02	419	B	0.02	419	B	0.02	419	B	0.02	419	B	0.01	418	B	0.01	418	B	0.02	418
246	A	0.01	129	A	0.01	129	A	0.01	129	A	0.01	129	A	0.01	129	A	0.01	129	A	0.	129	A	0.02	129
247	A	0.01	120	A	0.01	120	A	0.01	120	A	0.01	120	A	0.01	120	A	0.01	120	A	0.	120	A	0.02	120
248	A	0.01	111	A	0.01	111	A	0.01	111	A	0.01	111	A	0.01	111	A	0.01	111	A	0.	111	A	0.	111
249	B	0.15	1016	B	0.15	1016	B	0.1	1016	B	0.1	1016	B	0.1	1016	B	0.25	1016	B	0.08	1016	B	0.11	1016
250	B	0.09	626	B	0.09	626	B	0.07	626	B	0.07	626	B	0.07	626	B	0.08	626	B	0.05	626	B	0.08	626
251	B	0.08	1310	B	0.08	1310	B	0.06	1310	B	0.06	1310	B	0.06	1310	B	0.07	1310	B	0.05	1310	B	0.08	1310
252	B	0.11	1431	B	0.11	1431	B	0.08	1431	B	0.08	1431	B	0.09	1431	B	0.1	1431	B	0.07	1431	B	0.09	1431
253	B	0.12	924	B	0.13	924	B	0.1	924	B	0.1	924	B	0.1	924	B	0.14	924	B	0.07	924	B	0.06	924
254	B	0.17	1489	B	0.17	1489	B	0.13	1489	B	0.14	1489	B	0.14	1489	B	0.15	1489	B	0.1	1489	B	0.16	1489

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
255	B	0.11	2125	B	0.11	2125	B	0.08	2125	B	0.09	2125	B	0.09	2125	B	0.11	2125	B	0.07	2125	B	0.12	2125
256	B	0.05	496	B	0.06	496	B	0.04	496	B	0.04	496	B	0.04	496	B	0.04	496	B	0.03	496	B	0.03	496
257	A	0.02	186	A	0.03	186	A	0.02	186	A	0.01	186	A	0.01	186	A	0.02	186	A	0.01	186	A	0.02	186
258	A	0.11	118	A	0.05	118	A	0.03	118	A	0.04	118	A	0.05	118	A	0.1	118	A	0.03	118	A	0.03	119
259	B	0.08	498	B	0.09	498	B	0.06	498	B	0.06	498	B	0.07	498	B	0.07	498	B	0.04	498	B	0.08	498
260	B	0.09	859	B	0.09	859	B	0.07	859	B	0.07	859	B	0.07	859	B	0.08	859	B	0.05	859	B	0.06	859
261	B	0.04	866	B	0.04	866	B	0.03	866	B	0.02	866	B	0.03	866	B	0.04	866	B	0.02	866	B	0.05	866
262	B	0.22	746	B	0.21	599	B	0.18	457	B	0.18	942	B	0.2	903	B	0.41	750	B	0.14	736	B	0.19	890
263	B	0.14	1002	B	0.16	564	B	0.13	560	B	0.13	946	B	0.14	946	B	0.15	994	B	0.11	1227	B	0.16	1211
264	B	0.09	1532	B	0.1	860	B	0.08	1193	B	0.08	1448	B	0.1	1448	B	0.11	1520	B	0.08	1877	B	0.12	1853
265	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.	44
266	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
267	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
268	B	0.02	653	B	0.02	653	B	0.02	653	B	0.02	653	B	0.02	653	B	0.03	653	B	0.02	653	B	0.03	653
269	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
270	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
271	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
272	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
273	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
274	A	0.01	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.02	58
275	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
276	B	0.02	230	B	0.02	230	B	0.01	230	B	0.01	230	B	0.01	230	B	0.01	230	B	0.	230	B	0.	230
277	A	0.01	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.	186	A	0.02	186
278	B	0.	803	B	0.	803	B	0.	803	B	0.	803	B	0.	803	B	0.	803	B	0.	803	B	0.	803
279	B	0.01	357	B	0.02	357	B	0.01	357	B	0.01	357	B	0.01	357	B	0.01	357	B	0.	357	B	0.	357
280	B	0.01	357	B	0.01	357	B	0.01	357	B	0.01	357	B	0.01	357	B	0.01	357	B	0.	357	B	0.	357
281	B	0.02	230	B	0.02	230	B	0.01	230	B	0.01	230	B	0.01	230	B	0.01	230	B	0.01	230	B	0.	230
282	B	0.01	149	B	0.02	149	B	0.01	149	B	0.01	149	B	0.01	149	B	0.01	149	B	0.	149	B	0.	149

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
283	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.	39	A	0.	39
284	A	0.02	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.	57
285	A	0.	13	A	0.01	13	A	0.01	13	A	0.01	13	A	0.01	13	A	0.	13	A	0.	13	A	0.	13
286	A	0.02	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.01	132	A	0.01	132	A	0.02	132
287	A	0.03	178	A	0.02	178	A	0.02	178	A	0.02	178	A	0.02	178	A	0.02	178	A	0.01	178	A	0.02	178
288	A	0.01	114	A	0.01	114	A	0.01	114	A	0.01	114	A	0.01	114	A	0.01	114	A	0.	114	A	0.	114
289	C	0.06	51	C	0.08	51	C	0.04	51	C	0.03	51	C	0.07	51	C	0.66	51	C	0.02	51	C	0.03	51
290	A	0.02	149	A	0.02	149	A	0.01	149	A	0.01	149	A	0.02	149	A	0.03	149	A	0.01	149	A	0.02	149
291	A	0.02	219	A	0.03	219	A	0.02	219	A	0.02	219	A	0.02	219	A	0.02	219	A	0.01	219	A	0.02	219
292	A	0.03	186	A	0.03	186	A	0.02	186	A	0.02	186	A	0.02	186	A	0.02	186	A	0.01	186	A	0.02	186
293	B	0.02	322	B	0.01	322	B	0.01	322	B	0.01	322	B	0.01	322	B	0.01	322	B	0.01	322	B	0.02	322
294	B	0.02	458	B	0.03	458	B	0.02	458	B	0.02	458	B	0.02	458	B	0.02	458	B	0.01	458	B	0.03	458
295	A	0.01	30	A	0.01	30	A	0.	30	A	0.	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.02	30
296	A	0.	30	A	0.01	30	A	0.	30	A	0.	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.	30
297	C	0.01	19	C	0.02	19	C	0.01	19	C	0.01	19	C	0.01	19	C	0.01	19	C	0.	19	C	0.	19
298	A	0.02	163	A	0.03	162	A	0.02	162	A	0.02	162	A	0.03	162	A	0.02	162	A	0.01	162	A	0.02	163
299	A	0.01	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.02	32	A	0.	32	A	0.	32
300	A	0.03	359	A	0.03	359	A	0.02	359	A	0.02	359	A	0.03	359	A	0.03	359	A	0.02	359	A	0.03	359
301	B	0.04	651	B	0.04	651	B	0.03	651	B	0.03	651	B	0.03	651	B	0.03	651	B	0.02	651	B	0.03	651
302	A	0.01	31	A	0.01	31	A	0.	31	A	0.	31	A	0.01	31	A	0.	31	A	0.	31	A	0.	31
303	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.01	28	A	0.	28	A	0.	28
304	A	0.01	63	A	0.02	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.02	63
305	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.02	63
306	A	0.01	186	A	0.02	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.02	186
307	A	0.01	186	A	0.02	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.01	186	A	0.02	186
308	B	0.01	377	B	0.01	377	B	0.01	377	B	0.01	377	B	0.01	377	B	0.01	377	B	0.01	377	B	0.02	377
309	A	0.02	64	B	0.03	208	B	0.02	208	B	0.02	208	B	0.02	208	B	0.02	208	B	0.01	208	B	0.02	208
310	A	0.03	125	A	0.04	125	A	0.02	125	A	0.02	125	A	0.03	125	A	0.03	125	A	0.01	125	A	0.03	125

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
311	B	0.06	1164	B	0.06	6811	B	0.05	6811	B	0.05	6811	B	0.04	6811	B	0.04	6811	B	0.02	6811	B	0.02	6811
312	A	0.01	42	A	0.01	42	A	0.	42	A	0.01	42	A	0.01	42	A	0.01	42	A	0.	42	A	0.	42
313	A	0.01	43	A	0.01	43	A	0.	43	A	0.	43	A	0.01	43	A	0.01	43	A	0.	43	A	0.	43
314	A	0.01	131	A	0.02	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.	131
315	A	0.01	131	A	0.02	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.	131
316	A	0.01	289	A	0.02	289	A	0.01	289	A	0.01	289	A	0.01	289	A	0.02	289	A	0.01	289	A	0.02	289
317	B	0.04	518	B	0.04	518	B	0.03	518	B	0.03	518	B	0.03	518	B	0.03	518	B	0.02	518	B	0.02	518
318	B	0.03	500	B	0.03	500	B	0.02	500	B	0.02	500	B	0.02	500	B	0.02	500	B	0.01	500	B	0.02	500
319	B	0.	36	B	0.	36	B	0.	36	B	0.	36	B	0.	36	B	0.	36	B	0.	36	B	0.	36
320	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.02	13
321	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
322	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
323	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
324	A	0.01	22	A	0.01	22	A	0.	22	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22
325	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
326	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
327	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6
328	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16
329	A	0.	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16
330	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
331	A	0.	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16
332	A	0.	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16
333	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
334	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
335	A	0.	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16
336	A	0.	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.	16	A	0.	16	A	0.02	16
337	B	0.02	159	B	0.02	159	B	0.01	159	B	0.01	159	B	0.01	159	B	0.02	159	B	0.01	159	B	0.	159
338	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
339	A	0.01	65	A	0.01	65	A	0.	65	A	0.01	65	A	0.01	65	A	0.01	65	A	0.01	65	A	0.02	65
340	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
341	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40
342	B	0.	133	B	0.	133	B	0.	133	B	0.	133	B	0.	133	B	0.	133	B	0.	133	B	0.	133
343	A	0.	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
344	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35
345	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35
346	B	0.	315	B	0.01	315	B	0.	315	B	0.	315	B	0.	315	B	0.	315	B	0.	315	B	0.	315
347	A	0.	69	A	0.	69	A	0.	69	A	0.	69	A	0.	69	A	0.	69	A	0.	69	A	0.	69
348	A	0.01	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.	92	A	0.	92
349	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.	71	A	0.	71	A	0.	71
350	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.	71	A	0.	71
351	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.	71	A	0.	71
352	B	0.	811	B	0.	811	B	0.	811	B	0.	811	B	0.	811	B	0.	811	B	0.	811	B	0.	811
353	B	0.	601	B	0.	601	B	0.	601	B	0.	601	B	0.	601	B	0.	601	B	0.	601	B	0.	601
354	B	0.	391	B	0.	391	B	0.	391	B	0.	391	B	0.	391	B	0.	391	B	0.	391	B	0.	391
355	B	0.	194	B	0.	194	B	0.	194	B	0.	194	B	0.	194	B	0.	194	B	0.	194	B	0.	194
356	B	0.01	122	B	0.01	122	B	0.01	122	B	0.01	122	B	0.01	122	B	0.01	122	B	0.	122	B	0.	122
357	B	0.01	121	B	0.01	121	B	0.01	121	B	0.01	121	B	0.01	121	B	0.01	121	B	0.	121	B	0.	121
358	B	0.01	302	B	0.01	302	B	0.01	302	B	0.01	302	B	0.	302	B	0.01	302	B	0.	302	B	0.	302
359	B	0.01	209	B	0.01	209	B	0.01	209	B	0.	209	B	0.	209	B	0.	209	B	0.	209	B	0.	209
360	A	0.01	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.02	57
361	B	0.01	149	B	0.02	149	B	0.01	149	B	0.01	149	B	0.01	149	B	0.01	149	B	0.	149	B	0.	149
362	A	0.01	58	A	0.02	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.	58
363	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
364	A	0.01	81	A	0.02	81	A	0.01	81	A	0.01	81	A	0.01	81	A	0.01	81	A	0.	81	A	0.	81
365	A	0.02	140	A	0.02	140	A	0.02	140	A	0.01	140	A	0.02	140	A	0.02	140	A	0.01	140	A	0.02	140
366	B	0.	295	B	0.	295	B	0.	295	B	0.	295	B	0.	295	B	0.	295	B	0.	295	B	0.	295

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
367	B	0.01	83	B	0.01	83	B	0.01	83	B	0.01	83	B	0.01	83	B	0.01	83	B	0.	83	B	0.	83
368	A	0.01	83	A	0.01	83	A	0.01	83	A	0.01	83	A	0.01	83	A	0.01	83	A	0.	83	A	0.	83
369	B	0.	801	B	0.	801	B	0.	801	B	0.	801	B	0.	801	B	0.	801	B	0.	801	B	0.02	801
370	B	0.	205	B	0.	205	B	0.	205	B	0.	205	B	0.	205	B	0.	205	B	0.	205	B	0.	205
371	A	0.01	167	A	0.02	167	A	0.01	167	A	0.01	167	A	0.01	167	A	0.01	167	A	0.	167	A	0.02	167
372	A	0.01	173	A	0.01	173	A	0.01	173	A	0.01	173	A	0.01	173	A	0.01	173	A	0.	173	A	0.	173
373	A	0.01	141	A	0.01	141	A	0.01	141	A	0.01	141	A	0.01	141	A	0.01	141	A	0.	141	A	0.	141
374	A	0.02	137	A	0.02	137	A	0.02	137	A	0.01	137	A	0.02	137	A	0.01	137	A	0.01	137	A	0.	137
375	A	0.01	201	A	0.02	201	A	0.01	201	A	0.01	201	A	0.01	201	A	0.01	201	A	0.	201	A	0.	201
376	A	0.03	218	A	0.02	218	A	0.02	218	A	0.02	218	A	0.02	218	A	0.02	218	A	0.01	218	A	0.02	218
377	B	0.02	436	B	0.02	436	B	0.02	436	B	0.01	436	B	0.01	436	B	0.01	436	B	0.	436	B	0.02	436
378	B	0.01	96	B	0.01	96	B	0.01	96	B	0.01	96	B	0.01	96	B	0.01	96	B	0.01	96	B	0.	96
379	A	0.02	135	A	0.02	135	A	0.02	135	A	0.01	135	A	0.02	135	A	0.01	135	A	0.	135	A	0.02	135
380	A	0.01	205	A	0.01	205	A	0.01	205	A	0.01	205	A	0.01	205	A	0.01	210	A	0.01	210	A	0.02	210
381	A	0.01	90	A	0.01	90	A	0.01	90	A	0.01	90	A	0.01	90	A	0.01	90	A	0.01	90	A	0.	90
382	A	0.02	146	A	0.02	146	A	0.01	146	A	0.01	146	A	0.01	146	A	0.01	146	A	0.02	146	A	0.01	146
383	A	0.02	217	A	0.02	217	A	0.02	217	A	0.02	217	A	0.02	217	A	0.02	217	A	0.01	217	A	0.	217
384	B	0.05	2973	B	0.05	2973	B	0.04	2973	B	0.04	2973	B	0.04	2973	B	0.05	2973	B	0.03	2973	B	0.06	2973
385	B	0.02	1533	B	0.02	1533	B	0.02	1533	B	0.02	1533	B	0.02	1533	B	0.02	1533	B	0.01	1533	B	0.02	1533
386	A	0.01	171	A	0.02	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.01	171	A	0.02	171
387	B	0.04	1850	B	0.04	1850	B	0.03	1850	B	0.03	1850	B	0.03	1850	B	0.04	1850	B	0.03	1850	B	0.03	1850
388	B	0.02	1047	B	0.02	1047	B	0.01	1047	B	0.01	1047	B	0.01	1047	B	0.01	1047	B	0.01	1047	B	0.02	1047
389	A	0.02	412	A	0.03	412	A	0.02	412	A	0.02	412	A	0.02	412	A	0.03	412	A	0.02	412	A	0.02	412
390	A	0.01	90	A	0.01	90	A	0.01	90	A	0.01	90	A	0.01	90	A	0.01	90	A	0.01	90	A	0.02	90
391	A	0.03	412	A	0.03	412	A	0.02	412	A	0.02	412	A	0.02	412	A	0.02	412	A	0.02	412	A	0.03	412
392	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
393	A	0.01	32	A	0.01	32	A	0.	32	A	0.	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.02	32
394	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.02	131

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
395	B	0.02	324	B	0.02	324	B	0.01	324	B	0.02	324	B	0.01	324	B	0.02	324	B	0.01	324	B	0.02	324
396	B	0.01	211	B	0.02	211	B	0.01	211	B	0.01	211	B	0.01	211	B	0.01	211	B	0.01	211	B	0.02	211
397	A	0.01	122	A	0.02	122	A	0.01	122	A	0.01	122	A	0.01	122	A	0.04	122	A	0.01	122	A	0.02	122
398	A	0.01	88	A	0.02	88	A	0.02	88	A	0.02	88	A	0.02	88	A	0.02	88	A	0.01	88	A	0.02	88
399	A	0.02	175	A	0.03	175	A	0.02	175	A	0.02	175	A	0.02	175	A	0.02	175	A	0.01	175	A	0.	175
400	A	0.02	99	A	0.02	99	A	0.02	99	A	0.02	99	A	0.02	99	A	0.02	99	A	0.01	99	A	0.	99
401	A	0.03	162	A	0.03	162	A	0.02	162	A	0.02	162	A	0.02	162	A	0.02	162	A	0.01	162	A	0.02	162
402	A	0.03	193	A	0.04	193	A	0.02	193	A	0.03	193	A	0.03	193	A	0.03	193	A	0.01	193	A	0.03	193
403	B	0.03	635	B	0.03	1919	B	0.03	1919	B	0.03	1919	B	0.02	1919	B	0.03	1919	B	0.01	1919	B	0.02	1919
404	A	0.02	144	A	0.02	144	A	0.02	144	A	0.02	144	A	0.02	144	A	0.02	144	A	0.01	144	A	0.02	144
405	A	0.03	294	A	0.04	248	A	0.03	248	A	0.03	248	A	0.03	248	A	0.03	248	A	0.01	248	A	0.02	248
406	A	0.	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50
407	A	0.01	110	A	0.01	110	A	0.01	110	A	0.01	110	A	0.01	110	A	0.01	110	A	0.01	110	A	0.02	110
408	B	0.06	662	B	0.05	662	B	0.04	662	B	0.04	662	B	0.04	662	B	0.04	662	B	0.03	662	B	0.03	662
409	B	0.04	527	B	0.05	527	B	0.04	527	B	0.04	527	B	0.04	527	B	0.04	527	B	0.02	527	B	0.03	527
410	A	0.01	168	A	0.01	168	A	0.01	168	A	0.01	168	A	0.01	168	A	0.01	168	A	0.01	168	A	0.02	168
411	A	0.	69	A	0.01	69	A	0.	69	A	0.01	69	A	0.01	69	A	0.02	69	A	0.	69	A	0.	69
412	A	0.01	50	A	0.01	50	A	0.	50	A	0.01	50	A	0.	50	A	0.01	50	A	0.	50	A	0.	50
413	A	0.03	454	A	0.04	454	A	0.03	454	A	0.03	454	A	0.03	454	A	0.03	454	A	0.02	454	A	0.03	454
414	B	0.06	767	B	0.06	767	B	0.05	767	B	0.05	767	B	0.04	767	B	0.05	767	B	0.03	767	B	0.05	767
415	A	0.01	68	A	0.01	68	A	0.	68	A	0.	68	A	0.	68	A	0.	68	A	0.	68	A	0.	68
416	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
417	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
418	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
419	A	0.	103	A	0.	103	A	0.	103	A	0.	103	A	0.	103	A	0.	103	A	0.	103	A	0.	103
420	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
421	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.	63	A	0.	63	A	0.	63
422	A	0.01	266	A	0.02	266	A	0.01	266	A	0.01	266	A	0.01	266	A	0.01	266	A	0.01	266	A	0.	266

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
423	B	0.01	279	B	0.02	279	B	0.01	279	B	0.01	279	B	0.02	279	B	0.01	279	B	0.01	279	B	0.	279
424	A	0.	495	A	0.	495	A	0.	495	A	0.	495	A	0.	495	A	0.	495	A	0.	495	A	0.	495
425	B	0.01	546	B	0.01	546	B	0.01	546	B	0.01	546	B	0.01	546	B	0.01	546	B	0.	546	B	0.02	546
426	B	0.02	653	B	0.02	653	B	0.01	653	B	0.01	653	B	0.01	653	B	0.01	653	B	0.	653	B	0.	653
427	A	0.	747	A	0.	747	A	0.	747	A	0.	747	A	0.	747	A	0.	747	A	0.	747	A	0.	747
428	A	0.	343	A	0.	343	A	0.	343	A	0.	343	A	0.	343	A	0.	343	A	0.	343	A	0.	343
429	B	0.03	1306	B	0.03	1306	B	0.02	1306	B	0.02	1306	B	0.02	1306	B	0.02	1306	B	0.01	1306	B	0.02	1306
430	B	0.02	1374	B	0.03	1374	B	0.02	1374	B	0.02	1374	B	0.02	1374	B	0.02	1374	B	0.01	1374	B	0.02	1374
431	B	0.02	914	B	0.02	914	B	0.01	914	B	0.01	914	B	0.01	914	B	0.01	914	B	0.01	914	B	0.	914
432	B	0.01	914	B	0.02	914	B	0.01	914	B	0.01	914	B	0.01	914	B	0.01	914	B	0.	914	B	0.02	914
433	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.02	27
434	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
435	A	0.01	13	A	0.01	13	A	0.01	13	A	0.01	13	A	0.01	13	A	0.01	13	A	0.	13	A	0.	13
436	A	0.01	20	A	0.01	20	A	0.01	20	A	0.01	20	A	0.01	20	A	0.01	20	A	0.	20	A	0.	20
437	A	0.01	17	A	0.01	17	A	0.01	17	A	0.	17	A	0.01	17	A	0.01	17	A	0.	17	A	0.	17
438	B	0.02	719	B	0.02	719	B	0.02	719	B	0.02	719	B	0.01	719	B	0.02	719	F	0	0	F	0	0
439	B	0.05	2181	B	0.04	1085	B	0.02	1085	B	0.02	1085	B	0.02	1085	B	0.02	1085	B	0.01	1085	B	0.02	1085
440	B	0.04	1524	B	0.02	1090	B	0.02	1090	B	0.02	1090	B	0.01	1090	B	0.02	1090	B	0.01	1090	B	0.02	1090
441	B	0.03	531	B	0.02	1693	B	0.02	1693	B	0.02	1693	B	0.02	1693	B	0.02	1693	B	0.01	1693	B	0.	1693
442	A	0.01	189	A	0.02	189	A	0.01	189	A	0.01	189	A	0.01	189	A	0.01	189	A	0.	189	A	0.02	189
443	B	0.05	3109	B	0.04	1155	B	0.03	1155	B	0.03	1155	B	0.03	1155	B	0.03	1155	B	0.01	1155	B	0.03	1155
444	B	0.02	496	B	0.02	496	B	0.02	496	B	0.02	496	B	0.02	496	B	0.02	496	B	0.01	496	B	0.02	496
445	A	0.02	78	A	0.02	134	A	0.01	134	A	0.02	134	A	0.02	134	A	0.01	134	A	0.01	134	A	0.02	134
446	A	0.02	87	A	0.02	143	A	0.02	143	A	0.02	143	A	0.02	143	A	0.02	143	A	0.01	143	A	0.	143
447	B	0.07	311	B	0.07	311	B	0.06	311	B	0.05	307	B	0.18	311	B	3.25	311	B	0.04	311	B	0.03	307
448	A	0.01	22	A	0.02	22	A	0.02	22	A	0.02	22	A	0.02	22	A	0.01	22	A	0.01	22	A	0.	22
449	A	0.01	37	A	0.02	37	A	0.02	37	A	0.02	37	A	0.02	37	A	0.02	37	A	0.01	37	A	0.02	37
450	A	0.	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
451	A	0.	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
452	A	0.	48	A	0.01	48	A	0.	48	A	0.	48	A	0.01	48	A	0.	48	A	0.	48	A	0.02	48
453	A	0.	15	A	0.	15	A	0.	15	A	0.01	15	A	0.01	15	A	0.01	15	A	0.	15	A	0.	15
454	A	0.01	53	A	0.01	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.02	53
455	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.02	53
456	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.02	53
457	A	0.01	194	A	0.01	194	A	0.01	194	A	0.01	194	A	0.01	194	A	0.01	194	A	0.01	194	A	0.02	194
458	A	0.01	194	A	0.01	194	A	0.01	194	A	0.01	194	A	0.01	194	A	0.01	194	A	0.01	194	A	0.02	194
459	B	0.15	1114	A	0.09	625	A	0.07	625	A	0.07	625	A	0.06	625	A	0.07	625	A	0.03	625	A	0.06	625
460	B	0.21	15050	B	0.14	9058	B	0.12	9058	B	0.12	9058	B	0.13	9058	B	0.14	9058	B	0.04	9058	B	0.06	9058
461	B	0.22	3348	B	0.1	4192	B	0.07	4192	B	0.08	4192	B	0.08	4192	B	0.09	4192	B	0.03	4192	B	0.05	4192
462	A	0.13	610	A	0.13	609	A	0.13	610	A	0.13	610	A	0.27	609	A	0.22	609	A	0.14	610	A	0.2	610
463	B	0.66	1406	B	0.82	3546	B	0.64	3546	B	0.66	3546	B	0.89	3546	B	1.29	3546	B	0.32	3546	B	0.5	3534
464	B	0.58	1398	B	0.77	3546	B	0.57	3546	B	0.61	3546	B	0.65	3546	B	0.64	3546	B	0.28	3546	B	0.47	3546
465	A	0.	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
466	A	0.	89	A	0.01	89	A	0.	89	A	0.	89	A	0.	89	A	0.	89	A	0.	89	A	0.	89
467	B	0.03	715	B	0.02	715	B	0.01	715	B	0.01	715	B	0.02	715	B	0.02	715	B	0.01	715	B	0.02	715
468	B	0.02	3269	B	0.02	3269	B	0.02	3269	B	0.01	3269	B	0.01	3269	B	0.02	3269	B	0.01	3269	B	0.02	3269
469	B	0.01	201	B	0.01	201	B	0.	201	B	0.	201	B	0.	201	B	0.	201	B	0.	201	B	0.	201
470	B	0.03	10401	B	0.03	10401	B	0.02	10401	B	0.02	10401	B	0.02	10401	B	0.02	10401	B	0.02	10401	B	0.03	10401
471	B	0.11	35234	B	0.12	35234	B	0.08	35234	B	0.08	35234	B	0.08	35234	B	0.09	35234	B	0.06	35234	B	0.09	35234
472	B	0.02	4126	B	0.02	4126	B	0.01	4126	B	0.01	4126	B	0.01	4126	B	0.01	4126	B	0.01	4126	B	0.02	4126
473	B	0.05	28635	B	0.06	28635	B	0.04	28635	B	0.04	28635	B	0.04	28635	B	0.05	28635	B	0.03	28635	B	0.05	28635
474	B	0.02	627	B	0.03	627	B	0.02	627	B	0.02	627	B	0.02	627	B	0.02	627	B	0.02	627	B	0.03	627
475	B	0.01	157	B	0.01	157	B	0.01	157	B	0.01	157	B	0.01	157	B	0.01	157	B	0.01	157	B	0.	157
476	B	0.02	959	B	0.02	959	B	0.01	959	B	0.01	959	B	0.02	959	B	0.02	959	B	0.01	959	B	0.02	959
477	B	0.03	1665	B	0.03	1665	B	0.02	1665	B	0.02	1665	B	0.02	1665	B	0.02	1665	B	0.02	1665	B	0.03	1665
478	A	0.01	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.01	45	A	0.01	45	A	0.	45	A	0.	45

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
479	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.02	131
480	B	0.04	2765	B	0.04	2765	B	0.02	2765	B	0.02	2765	B	0.03	2765	B	0.03	2765	B	0.02	2765	B	0.03	2765
481	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.	23	A	0.	23	A	0.02	23
482	A	0.01	28	A	0.01	28	A	0.	28	A	0.01	28	A	0.02	28	A	0.01	28	A	0.	28	A	0.	28
483	A	0.01	38	A	0.02	38	A	0.02	38	A	0.02	38	A	0.02	39	A	0.02	38	A	0.01	39	A	0.02	38
484	A	0.	44	A	0.01	44	A	0.01	44	A	0.	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.02	44
485	A	0.	24	A	0.01	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
486	B	0.13	1595	B	0.13	1595	B	0.09	1595	B	0.09	1595	B	0.09	1595	B	0.11	1595	B	0.07	1595	B	0.11	1595
487	B	0.24	25728	B	0.27	25728	B	0.22	25728	B	0.23	25728	B	0.27	25728	B	0.39	25728	B	0.22	25728	B	0.45	25728
488	B	0.05	2926	B	0.07	2926	B	0.04	2926	B	0.04	2926	B	0.05	2926	B	0.06	2926	B	0.04	2925	B	0.05	2926
489	B	0.16	12895	B	0.18	12895	B	0.14	12894	B	0.15	12895	B	0.16	12894	B	0.19	12895	B	0.14	12895	B	0.22	12895
490	B	0.18	12990	B	0.2	12990	B	0.16	12990	B	0.16	12990	B	0.17	12990	B	0.2	12990	B	0.14	12990	B	0.22	12990
491	A	0.03	209	A	0.04	209	A	0.03	209	A	0.03	209	A	0.08	209	A	0.18	209	A	0.06	209	A	0.03	209
492	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
493	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
494	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
495	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
496	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
497	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
498	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
499	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
500	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
501	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
502	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
503	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
504	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
505	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
506	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 28 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
507	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
508	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
509	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
510	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
511	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
512	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
513	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
514	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
515	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
516	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
517	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
518	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
519	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.27 $1_Algebraic_functions\backslash 1.2Trinomialproducts\backslash 1.2.1Quadratic\backslash 1.2.1.3(d+ex)^m(f+gx)(a+bx+cx^2)^p$

Table 29: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
2	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
3	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
4	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.02	23	A	0.01	23	A	0.	23	A	0.02	23
5	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.02	28	A	0.01	28	A	0.	28	A	0.	28
6	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
7	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.01	28	A	0.	28	A	0.	28
8	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
9	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.02	46	A	0.01	46	A	0.	46	A	0.	46
10	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76
11	A	0.01	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.01	66	A	0.	66	A	0.	66
12	A	0.01	76	A	0.01	76	A	0.01	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76
13	A	0.01	46	A	0.02	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.01	46	A	0.02	46
14	A	0.02	107	A	0.02	107	A	0.01	107	A	0.01	107	A	0.02	107	A	0.01	107	A	0.01	107	A	0.	107
15	A	0.02	168	A	0.02	168	A	0.02	168	A	0.02	168	A	0.02	168	A	0.02	168	A	0.01	168	A	0.02	168
16	A	0.01	291	A	0.02	291	A	0.01	291	A	0.01	291	A	0.02	291	A	0.01	291	A	0.01	291	A	0.02	291
17	A	0.01	112	A	0.01	112	A	0.01	112	A	0.01	112	A	0.02	112	A	0.01	112	A	0.01	112	A	0.02	112
18	A	0.02	89	A	0.02	89	A	0.01	89	A	0.01	89	A	0.02	89	A	0.02	89	A	0.01	89	A	0.02	89
19	A	0.01	86	A	0.01	86	A	0.01	86	A	0.01	86	A	0.	86	A	0.01	86	A	0.01	86	A	0.02	86
20	A	0.01	187	A	0.02	187	A	0.01	187	A	0.01	187	A	0.02	187	A	0.01	187	A	0.01	187	A	0.02	187
21	B	0.02	176	B	0.02	176	B	0.01	176	B	0.01	176	B	0.02	176	B	0.01	176	B	0.01	176	B	0.	176
22	B	0.02	306	B	0.02	306	B	0.02	306	B	0.02	306	B	0.02	306	B	0.02	306	B	0.01	306	B	0.02	306
23	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.01	40	A	0.	40	A	0.	40
24	A	0.01	110	A	0.01	110	A	0.01	110	A	0.01	110	A	0.	110	A	0.01	110	A	0.01	110	A	0.	110
25	A	0.01	134	A	0.01	134	A	0.01	134	A	0.01	134	A	0.02	134	A	0.01	134	A	0.01	134	A	0.	134
26	A	0.01	166	A	0.02	166	A	0.01	166	A	0.01	166	A	0.	166	A	0.01	166	A	0.01	166	A	0.	166
27	A	0.01	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.01	37	A	0.	37	A	0.	37
28	B	0.02	338	B	0.02	338	B	0.02	338	B	0.02	338	B	0.02	338	B	0.02	338	B	0.01	338	B	0.02	338
29	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.02	107	A	0.01	107	A	0.01	107	A	0.02	107
30	A	0.01	180	A	0.01	180	A	0.01	180	A	0.01	180	A	0.02	180	A	0.01	180	A	0.01	180	A	0.	180
31	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.02	28
32	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.02	28	A	0.	28	A	0.	28	A	0.	28
33	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.	52	A	0.01	52	A	0.	52	A	0.	52
34	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.	52	A	0.01	52	A	0.01	52	A	0.	52
35	A	0.01	76	A	0.01	76	A	0.01	76	A	0.01	76	A	0.	76	A	0.01	76	A	0.	76	A	0.	76
36	A	0.01	76	A	0.01	76	A	0.01	76	A	0.01	76	A	0.	76	A	0.01	76	A	0.01	76	A	0.	76

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
37	A	0.01	76	A	0.01	76	A	0.01	76	A	0.01	76	A	0.02	76	A	0.01	76	A	0.01	76	A	0.	76
38	A	0.02	87	A	0.03	87	A	0.02	87	A	0.02	87	A	0.03	87	A	0.02	87	A	0.01	87	A	0.02	87
39	A	0.02	125	A	0.03	125	A	0.02	125	A	0.02	125	A	0.02	125	A	0.02	125	A	0.01	125	A	0.02	125
40	A	0.03	125	A	0.03	122	A	0.02	122	A	0.02	122	A	0.03	122	A	0.02	122	A	0.01	122	A	0.02	122
41	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.	131	A	0.01	131	A	0.01	131	A	0.02	131
42	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.	107	A	0.01	107	A	0.01	107	A	0.02	107
43	A	0.01	59	A	0.01	59	A	0.	59	A	0.01	59	A	0.	59	A	0.01	59	A	0.	59	A	0.	59
44	A	0.03	108	A	0.03	108	A	0.02	108	A	0.02	108	A	0.02	108	A	0.03	108	A	0.02	108	A	0.03	108
45	A	0.03	147	A	0.04	147	A	0.02	147	A	0.02	147	A	0.02	147	A	0.03	147	A	0.02	147	A	0.03	147
46	A	0.01	83	A	0.01	83	A	0.01	83	A	0.01	83	A	0.	83	A	0.01	83	A	0.	83	A	0.	83
47	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.02	131	A	0.01	131	A	0.01	131	A	0.02	131
48	A	0.01	83	A	0.01	83	A	0.01	83	A	0.01	83	A	0.	83	A	0.01	83	A	0.01	83	A	0.02	83
49	A	0.03	71	A	0.03	71	A	0.02	71	A	0.02	71	A	0.03	71	A	0.02	71	A	0.02	71	A	0.03	71
50	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.02	107	A	0.01	107	A	0.01	107	A	0.02	107
51	A	0.04	174	A	0.04	174	A	0.04	174	A	0.04	174	A	0.03	174	A	0.04	174	A	0.02	174	A	0.03	174
52	A	0.01	59	A	0.01	59	A	0.01	59	A	0.01	59	A	0.02	59	A	0.01	59	A	0.	59	A	0.02	59
53	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78	A	0.	78
54	A	0.	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102
55	A	0.01	98	A	0.02	98	A	0.01	98	A	0.01	98	A	0.	98	A	0.01	98	A	0.	98	A	0.	98
56	A	0.01	77	A	0.01	77	A	0.	77	A	0.01	77	A	0.	77	A	0.01	77	A	0.	77	A	0.02	77
57	A	0.	53	A	0.01	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.02	53
58	B	0.02	96	B	0.02	96	B	0.02	96	B	0.02	96	B	0.02	96	B	0.01	96	B	0.01	96	B	0.	96
59	A	0.02	136	A	0.02	136	A	0.01	136	A	0.01	136	A	0.	136	A	0.01	136	A	0.01	136	A	0.02	136
60	A	0.01	53	A	0.01	53	A	0.	53	A	0.01	53	A	0.	53	A	0.01	53	A	0.	53	A	0.	53
61	A	0.02	121	A	0.02	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.02	121
62	A	0.01	94	A	0.01	94	A	0.01	94	A	0.01	94	A	0.	94	A	0.01	94	A	0.01	94	A	0.	94
63	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.	107	A	0.01	107	A	0.01	107	A	0.	107
64	A	0.01	150	A	0.02	150	A	0.01	150	A	0.01	150	A	0.01	150	A	0.01	150	A	0.01	150	A	0.02	150

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0								
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
65	A	0.02	174	A	0.02	174	A	0.01	174	A	0.01	174	A	0.02	174	A	0.01	174	A	0.01	174	A	0.01	174	A	0.02	174
66	A	0.03	165	A	0.03	165	A	0.03	165	A	0.03	165	A	0.03	165	A	0.03	165	A	0.02	165	A	0.03	165	A	0.03	165
67	A	0.02	153	A	0.02	153	A	0.01	153	A	0.02	153	A	0.02	153	A	0.02	153	A	0.01	153	A	0.02	153	A	0.02	153
68	A	0.01	85	A	0.01	85	A	0.01	85	A	0.01	85	A	0.	85	A	0.01	85	A	0.01	85	A	0.01	85	A	0.02	85
69	A	0.02	181	A	0.02	181	A	0.02	181	A	0.01	181	A	0.02	181	A	0.01	181	A	0.01	181	A	0.01	181	A	0.02	181
70	A	0.02	207	A	0.02	207	A	0.01	207	A	0.01	207	A	0.01	207	A	0.01	207	A	0.01	207	A	0.01	207	A	0.02	207
71	B	0.02	236	B	0.02	236	B	0.02	236	B	0.01	236	B	0.02	236	B	0.01	236	B	0.01	236	B	0.01	236	B	0.02	236
72	A	0.02	117	A	0.02	117	A	0.01	117	A	0.01	117	A	0.02	117	A	0.01	117	A	0.01	117	A	0.01	117	A	0.02	117
73	A	0.01	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.	37	A	0.01	37	A	0.01	37	A	0.01	37	A	0.02	37
74	A	0.01	87	A	0.02	87	A	0.01	87	A	0.01	87	A	0.02	87	A	0.01	87	A	0.01	87	A	0.01	87	A	0.	87
75	A	0.02	115	A	0.02	115	A	0.01	115	A	0.01	115	A	0.	115	A	0.02	115	A	0.01	115	A	0.01	115	A	0.03	115
76	A	0.01	93	A	0.02	93	A	0.01	93	A	0.01	93	A	0.01	93	A	0.01	93	A	0.01	93	A	0.01	93	A	0.02	93
77	A	0.01	54	A	0.01	54	A	0.	54	A	0.01	54	A	0.	54	A	0.01	54	A	0.	54	A	0.	54	A	0.02	54
78	A	0.	40	A	0.01	40	A	0.	40	A	0.01	40	A	0.02	40	A	0.01	40	A	0.	40	A	0.	40	A	0.02	40
79	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.02	54
80	A	0.01	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.	54	A	0.01	54	A	0.01	54	A	0.01	54	A	0.02	54
81	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.02	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.02	78
82	A	0.02	277	A	0.02	277	A	0.01	277	A	0.02	277	A	0.	277	A	0.01	277	A	0.01	277	A	0.01	277	A	0.02	277
83	A	0.01	268	A	0.02	268	A	0.01	268	A	0.01	268	A	0.02	268	A	0.01	268	A	0.01	268	A	0.01	268	A	0.	268
84	A	0.01	313	A	0.02	313	A	0.01	313	A	0.02	313	A	0.02	313	A	0.02	313	A	0.01	313	A	0.01	313	A	0.	313
85	A	0.08	360	A	0.07	360	A	0.06	360	A	0.06	360	A	0.05	360	A	0.06	360	A	0.04	360	A	0.04	360	A	0.05	360
86	A	0.05	312	A	0.06	312	A	0.04	312	A	0.04	312	A	0.05	312	A	0.05	312	A	0.05	312	A	0.03	312	A	0.06	312
87	A	0.06	303	A	0.07	303	A	0.05	303	A	0.05	303	A	0.05	303	A	0.06	303	A	0.06	303	A	0.04	303	A	0.06	303
88	A	0.07	340	A	0.08	340	A	0.06	340	A	0.06	340	A	0.06	340	A	0.06	340	A	0.07	340	A	0.04	340	A	0.06	340
89	A	0.05	384	A	0.06	384	A	0.04	384	A	0.04	384	A	0.05	384	A	0.05	384	A	0.05	384	A	0.04	384	A	0.05	384
90	A	0.04	366	A	0.05	366	A	0.03	366	A	0.03	366	A	0.03	366	A	0.04	366	A	0.02	366	A	0.02	366	A	0.05	366
91	A	0.03	329	A	0.03	329	A	0.02	329	A	0.02	329	A	0.03	329	A	0.03	329	A	0.03	329	A	0.02	329	A	0.03	329
92	A	0.03	364	A	0.04	364	A	0.02	364	A	0.02	364	A	0.03	364	A	0.03	364	A	0.03	364	A	0.02	364	A	0.02	364

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
93	A	0.04	316	A	0.05	316	A	0.04	316	A	0.03	316	A	0.03	316	A	0.04	316	A	0.02	316	A	0.05	316
94	A	0.07	308	A	0.07	308	A	0.06	308	A	0.06	308	A	0.06	308	A	0.06	308	A	0.05	308	A	0.06	308
95	A	0.03	303	A	0.04	303	A	0.02	304	A	0.02	304	A	0.03	304	A	0.03	304	A	0.02	304	A	0.03	304
96	A	0.06	637	A	0.07	637	A	0.06	637	A	0.06	637	A	0.05	637	A	0.06	637	A	0.04	637	A	0.05	637
97	B	0.02	1255	B	0.01	1255	B	0.01	1255	B	0.01	1255	B	0.02	1255	B	0.01	1255	B	0.01	1255	B	0.02	1255
98	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
99	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
100	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
101	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
102	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52	A	0.	52
103	A	0.01	48	A	0.01	48	A	0.01	48	A	0.01	48	A	0.02	48	A	0.01	48	A	0.	48	A	0.02	48
104	A	0.	100	A	0.	100	A	0.	100	A	0.	100	A	0.	100	A	0.	100	A	0.	100	A	0.	100
105	A	0.01	100	A	0.01	100	A	0.01	100	A	0.01	100	A	0.02	100	A	0.01	100	A	0.	100	A	0.	100
106	A	0.01	142	A	0.01	142	A	0.	142	A	0.	142	A	0.	142	A	0.01	142	A	0.	142	A	0.02	142
107	A	0.01	128	A	0.01	128	A	0.01	128	A	0.01	128	A	0.01	128	A	0.01	128	A	0.	128	A	0.	128
108	B	0.	130	B	0.	130	B	0.	130	B	0.	130	B	0.	130	B	0.	130	B	0.	130	B	0.	130
109	A	0.01	128	A	0.02	128	A	0.01	128	A	0.01	128	A	0.02	128	A	0.01	128	A	0.01	128	A	0.	128
110	A	0.01	127	A	0.02	127	A	0.01	127	A	0.01	127	A	0.01	127	A	0.01	127	A	0.	127	A	0.02	127
111	A	0.01	128	A	0.02	128	A	0.01	128	A	0.01	128	A	0.01	128	A	0.01	128	A	0.	128	A	0.	128
112	B	0.01	130	B	0.01	130	B	0.01	130	B	0.01	130	B	0.01	130	B	0.01	130	B	0.	130	B	0.	130
113	A	0.01	130	A	0.02	130	A	0.01	130	A	0.01	130	A	0.02	130	A	0.01	130	A	0.	130	A	0.	130
114	A	0.	57	A	0.01	57	A	0.	57	A	0.01	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57
115	A	0.01	59	A	0.02	59	A	0.01	59	A	0.01	59	A	0.	59	A	0.01	59	A	0.	59	A	0.02	59
116	A	0.01	62	A	0.01	62	A	0.01	62	A	0.01	62	A	0.02	62	A	0.01	62	A	0.	62	A	0.02	62
117	A	0.01	156	A	0.02	156	A	0.01	156	A	0.01	156	A	0.	156	A	0.01	156	A	0.	156	A	0.	156
118	A	0.01	109	A	0.02	109	A	0.01	109	A	0.01	109	A	0.02	109	A	0.01	109	A	0.	109	A	0.02	109
119	A	0.02	107	A	0.02	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.	107
120	A	0.01	126	A	0.02	126	A	0.01	126	A	0.01	126	A	0.	126	A	0.01	126	A	0.	126	A	0.	126

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
121	A	0.01	101	A	0.01	101	A	0.01	101	A	0.01	101	A	0.	101	A	0.01	101	A	0.	101	A	0.02	101
122	A	0.01	165	A	0.02	165	A	0.01	165	A	0.01	165	A	0.01	165	A	0.01	165	A	0.	165	A	0.02	165
123	A	0.02	98	A	0.02	98	A	0.01	98	A	0.01	98	A	0.02	98	A	0.01	98	A	0.01	98	A	0.	98
124	A	0.02	186	A	0.02	186	A	0.01	186	A	0.02	186	A	0.03	186	A	0.02	186	A	0.01	186	A	0.	186
125	A	0.01	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.	92	A	0.01	92	A	0.	92	A	0.02	92
126	A	0.01	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.	92
127	A	0.01	140	A	0.02	140	A	0.01	140	A	0.01	140	A	0.02	140	A	0.01	140	A	0.01	140	A	0.02	140
128	A	0.01	140	A	0.01	140	A	0.01	140	A	0.01	140	A	0.02	140	A	0.01	140	A	0.01	140	A	0.02	140
129	A	0.02	93	A	0.03	92	A	0.02	93	A	0.02	92	A	0.01	93	A	0.02	92	A	0.01	92	A	0.02	92
130	A	0.02	119	A	0.03	119	A	0.02	119	A	0.02	119	A	0.03	119	A	0.02	119	A	0.01	119	A	0.02	119
131	A	0.02	217	A	0.03	217	A	0.02	217	A	0.02	217	A	0.02	217	A	0.02	217	A	0.01	217	A	0.03	217
132	A	0.01	153	A	0.02	153	A	0.01	153	A	0.01	153	A	0.02	153	A	0.02	153	A	0.01	153	A	0.02	153
133	A	0.02	83	A	0.02	83	A	0.01	83	A	0.02	83	A	0.02	83	A	0.02	83	A	0.01	83	A	0.02	83
134	A	0.02	117	A	0.03	116	A	0.02	117	A	0.02	116	A	0.03	117	A	0.02	116	A	0.01	117	A	0.02	116
135	A	0.03	263	A	0.03	262	A	0.02	263	A	0.02	262	A	0.03	263	A	0.03	262	A	0.01	262	A	0.02	262
136	A	0.02	273	A	0.03	273	A	0.02	273	A	0.02	273	A	0.02	273	A	0.02	273	A	0.01	273	A	0.02	273
137	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.02	52	A	0.01	52	A	0.01	52	A	0.	52
138	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.02	52
139	A	0.01	100	A	0.01	100	A	0.01	100	A	0.01	100	A	0.02	100	A	0.01	100	A	0.01	100	A	0.02	100
140	A	0.01	100	A	0.02	100	A	0.01	100	A	0.01	100	A	0.	100	A	0.01	100	A	0.01	100	A	0.02	100
141	A	0.01	148	A	0.02	148	A	0.01	148	A	0.01	148	A	0.02	148	A	0.01	148	A	0.01	148	A	0.02	148
142	A	0.01	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.02	148
143	A	0.02	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.02	148
144	A	0.03	163	A	0.03	163	A	0.02	163	A	0.02	163	A	0.03	163	A	0.02	163	A	0.02	163	A	0.	163
145	A	0.03	139	A	0.03	139	A	0.02	139	A	0.03	139	A	0.02	139	A	0.02	139	A	0.01	139	A	0.02	139
146	A	0.04	163	A	0.04	155	A	0.03	155	A	0.03	155	A	0.02	155	A	0.03	155	A	0.01	155	A	0.02	155
147	A	0.04	190	A	0.04	186	A	0.03	186	A	0.03	186	A	0.02	186	A	0.03	186	A	0.02	186	A	0.02	186
148	A	0.04	266	A	0.04	266	A	0.03	266	A	0.03	266	A	0.03	266	A	0.03	266	A	0.02	266	A	0.03	266

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
149	A	0.03	150	A	0.03	229	A	0.02	229	A	0.02	229	A	0.02	229	A	0.02	229	A	0.01	229	A	0.02	229
150	A	0.01	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.02	92
151	A	0.01	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.02	92
152	A	0.01	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.	92	A	0.01	92	A	0.01	92	A	0.02	92
153	A	0.01	140	A	0.01	140	A	0.01	140	A	0.01	140	A	0.01	140	A	0.01	140	A	0.01	140	A	0.	140
154	A	0.01	283	A	0.02	283	A	0.01	283	A	0.01	283	A	0.01	283	A	0.03	283	A	0.01	283	A	0.02	283
155	A	0.03	208	A	0.03	208	A	0.02	208	A	0.02	208	A	0.04	208	A	0.02	208	A	0.01	208	A	0.02	208
156	A	0.02	194	A	0.03	194	A	0.02	194	A	0.02	194	A	0.02	194	A	0.02	194	A	0.01	194	A	0.02	194
157	A	0.03	253	A	0.04	253	A	0.02	253	A	0.03	253	A	0.02	253	A	0.03	253	A	0.01	253	A	0.02	253
158	A	0.01	289	A	0.02	289	A	0.01	289	A	0.01	289	A	0.01	289	A	0.03	289	A	0.01	289	A	0.	289
159	A	0.04	443	A	0.04	443	A	0.03	443	A	0.03	443	A	0.03	443	A	0.03	443	A	0.01	443	A	0.02	443
160	B	0.03	357	B	0.03	357	B	0.02	357	B	0.02	357	B	0.02	357	B	0.02	357	B	0.01	357	B	0.03	357
161	A	0.04	413	A	0.04	413	A	0.03	413	A	0.03	413	A	0.03	413	A	0.03	413	A	0.01	413	A	0.02	413
162	A	0.05	449	A	0.04	449	A	0.03	449	A	0.03	449	A	0.03	449	A	0.04	449	A	0.02	449	A	0.03	449
163	B	0.01	246	B	0.02	246	B	0.01	246	B	0.01	246	B	0.01	246	B	0.01	246	B	0.01	246	B	0.02	246
164	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40
165	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40
166	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.02	94
167	A	0.01	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.02	92	A	0.01	92	A	0.	92	A	0.02	92
168	A	0.	226	A	0.01	226	A	0.	226	A	0.	226	A	0.	226	A	0.	226	A	0.	226	A	0.	226
169	A	0.	223	A	0.	223	A	0.	223	A	0.	223	A	0.	223	A	0.	223	A	0.	223	A	0.	223
170	A	0.01	188	A	0.02	188	A	0.01	188	A	0.01	188	A	0.02	188	A	0.01	188	A	0.	188	A	0.	188
171	B	0.	161	B	0.01	161	B	0.	161	B	0.	161	B	0.	161	B	0.01	161	B	0.	161	B	0.02	161
172	A	0.01	100	A	0.02	100	A	0.01	100	A	0.01	100	A	0.02	100	A	0.01	100	A	0.	100	A	0.	100
173	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
174	A	0.	29	A	0.01	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
175	A	0.	23	A	0.01	23	A	0.	23	A	0.01	23	A	0.	23	A	0.01	23	A	0.	23	A	0.	23
176	A	0.	33	A	0.01	33	A	0.	33	A	0.	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.	33

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
177	B	0.03	872	B	0.03	872	B	0.02	872	B	0.02	872	B	0.02	872	B	0.02	872	B	0.02	872	B	0.03	872
178	B	0.02	497	B	0.02	497	B	0.01	497	B	0.01	497	B	0.01	497	B	0.02	497	B	0.01	497	B	0.02	497
179	B	0.01	229	B	0.01	229	B	0.01	229	B	0.01	229	B	0.01	229	B	0.01	229	B	0.	229	B	0.02	229
180	B	0.02	304	B	0.02	304	B	0.01	304	B	0.02	304	B	0.01	304	B	0.02	304	B	0.01	304	B	0.02	304
181	B	0.02	386	B	0.02	386	B	0.02	386	B	0.02	386	B	0.02	386	B	0.02	386	B	0.01	386	B	0.02	386
182	B	0.03	1061	B	0.03	1061	B	0.02	1061	B	0.02	1061	B	0.02	1061	B	0.03	1061	B	0.02	1061	B	0.03	1061
183	B	0.01	469	B	0.01	469	B	0.01	469	B	0.01	469	B	0.01	469	B	0.01	469	B	0.01	469	B	0.02	469
184	B	0.02	463	B	0.02	463	B	0.02	463	B	0.02	463	B	0.02	463	B	0.02	463	B	0.01	463	B	0.02	463
185	B	0.02	635	B	0.02	635	B	0.02	635	B	0.02	635	B	0.02	635	B	0.02	635	B	0.01	635	B	0.03	635
186	B	0.05	1575	B	0.06	1575	B	0.05	1575	B	0.05	1575	B	0.05	1575	B	0.06	1575	B	0.04	1575	B	0.06	1575
187	B	0.02	1277	B	0.03	1277	B	0.02	1277	B	0.02	1277	B	0.02	1277	B	0.02	1277	B	0.02	1277	B	0.03	1277
188	B	0.03	1094	B	0.04	1094	B	0.03	1094	B	0.03	1094	B	0.02	1094	B	0.03	1094	B	0.02	1094	B	0.03	1094
189	B	0.05	1677	B	0.06	1677	B	0.05	1677	B	0.05	1677	B	0.05	1677	B	0.06	1677	B	0.04	1677	B	0.06	1677
190	B	0.02	576	B	0.02	576	B	0.01	576	B	0.01	576	B	0.01	576	B	0.01	576	B	0.01	576	B	0.02	576
191	B	0.01	216	B	0.01	216	B	0.01	216	B	0.01	216	B	0.	216	B	0.01	216	B	0.01	216	B	0.02	216
192	B	0.02	330	B	0.02	330	B	0.02	330	B	0.02	330	B	0.02	330	B	0.02	330	B	0.01	330	B	0.02	330
193	B	0.02	506	B	0.02	506	B	0.02	506	B	0.02	506	B	0.02	506	B	0.02	506	B	0.01	506	B	0.02	506
194	B	0.02	1051	B	0.03	1051	B	0.02	1051	B	0.02	1051	B	0.03	1051	B	0.02	1051	B	0.02	1051	B	0.02	1051
195	B	0.02	500	B	0.02	500	B	0.01	500	B	0.02	500	B	0.02	500	B	0.02	500	B	0.01	500	B	0.02	500
196	A	0.01	102	A	0.01	102	A	0.01	102	A	0.01	102	A	0.	102	A	0.01	102	A	0.01	102	A	0.02	102
197	A	0.01	102	A	0.01	102	A	0.01	102	A	0.01	102	A	0.01	102	A	0.01	102	A	0.01	102	A	0.02	102
198	A	0.01	192	A	0.01	192	A	0.01	192	A	0.01	192	A	0.02	192	A	0.01	192	A	0.01	192	A	0.02	192
199	B	0.06	581	B	0.07	581	B	0.06	581	B	0.06	581	B	0.03	581	B	0.06	581	B	0.02	581	B	0.03	581
200	B	0.04	630	B	0.06	630	B	0.05	630	B	0.05	630	B	0.03	630	B	0.06	630	B	0.02	630	B	0.03	630
201	B	0.2	10445	B	0.26	15296	B	0.22	15296	B	0.22	15296	B	0.16	15296	B	0.25	15296	B	0.06	15296	B	0.11	15296
202	B	0.09	1687	B	0.1	1687	B	0.07	1687	B	0.07	1687	B	0.08	1687	B	0.08	1687	B	0.06	1687	B	0.09	1687
203	A	0.1	130	A	0.06	130	A	0.05	100	A	0.05	100	A	0.05	100	A	0.05	100	A	0.04	100	A	0.06	100
204	A	0.05	129	A	0.06	129	A	0.05	99	A	0.05	99	A	0.03	99	A	0.05	99	A	0.03	99	A	0.05	99

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
205	A	0.03	135	A	0.04	135	A	0.03	105	A	0.03	105	A	0.03	105	A	0.03	105	A	0.02	105	A	0.05	105
206	A	0.04	128	A	0.05	128	A	0.04	98	A	0.04	98	A	0.05	98	A	0.04	98	A	0.03	98	A	0.05	98
207	A	0.03	114	A	0.03	114	A	0.02	83	A	0.02	83	A	0.02	83	A	0.02	83	A	0.01	83	A	0.02	83
208	A	0.06	113	A	0.07	113	A	0.05	83	A	0.05	83	A	0.05	83	A	0.05	83	A	0.04	83	A	0.05	83
209	A	0.07	325	A	0.08	325	A	0.06	235	A	0.06	235	A	0.05	235	A	0.06	235	A	0.04	235	A	0.06	235
210	A	0.04	320	A	0.04	320	A	0.03	230	A	0.03	230	A	0.03	230	A	0.03	230	A	0.02	230	A	0.03	230
211	A	0.03	315	A	0.04	315	A	0.03	225	A	0.03	225	A	0.03	225	A	0.03	225	A	0.02	225	A	0.03	225
212	A	0.04	327	A	0.05	327	A	0.03	237	A	0.03	237	A	0.03	237	A	0.04	237	A	0.02	237	A	0.03	237
213	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
214	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
215	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
216	A	0.	104	A	0.	104	A	0.	104	A	0.	104	A	0.	104	A	0.	104	A	0.	104	A	0.	104
217	A	0.	56	A	0.	56	A	0.	56	A	0.	56	A	0.	56	A	0.	56	A	0.	56	A	0.	56
218	A	0.01	138	A	0.01	138	A	0.	138	A	0.01	138	A	0.	138	A	0.01	138	A	0.	138	A	0.	138
219	A	0.01	118	A	0.02	118	A	0.01	118	A	0.01	118	A	0.02	118	A	0.01	118	A	0.	118	A	0.	118
220	A	0.02	446	A	0.02	446	A	0.01	446	A	0.01	446	A	0.02	446	A	0.01	446	A	0.01	446	A	0.	446
221	A	0.01	307	A	0.02	307	A	0.01	307	A	0.01	307	A	0.02	307	A	0.01	307	A	0.	307	A	0.	307
222	B	0.03	4138	B	0.03	4138	B	0.02	4138	B	0.03	4138	B	0.03	4138	B	0.16	4138	B	0.14	4138	B	0.2	4138
223	A	0.	342	A	0.	342	A	0.	342	A	0.	342	A	0.	342	A	0.	342	A	0.	342	A	0.02	342
224	A	0.	138	A	0.	138	A	0.	138	A	0.	138	A	0.	138	A	0.	138	A	0.	138	A	0.	138
225	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76
226	A	0.01	396	A	0.02	396	A	0.02	396	A	0.02	396	A	0.02	396	A	0.02	396	A	0.	396	A	0.02	396
227	A	0.01	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.	32
228	A	0.04	415	A	0.03	415	A	0.02	415	A	0.02	415	A	0.02	415	A	0.02	415	A	0.01	415	A	0.	415
229	B	0.02	286	B	0.02	286	B	0.02	286	B	0.02	286	B	0.02	286	B	0.02	286	B	0.	286	B	0.	286
230	A	0.03	357	A	0.03	357	A	0.02	357	A	0.02	357	A	0.02	357	A	0.02	357	A	0.01	357	A	0.02	357
231	A	0.02	365	A	0.02	365	A	0.02	365	A	0.02	365	A	0.02	365	A	0.02	365	A	0.01	365	A	0.	365
232	B	0.02	2285	B	0.03	2285	B	0.02	2285	B	0.02	2285	B	0.02	2285	B	0.02	2285	B	0.02	2285	B	0.03	2285

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
233	B	0.02	4316	B	0.03	4316	B	0.02	4316	B	0.02	4316	B	0.02	4316	B	0.02	4316	B	0.02	4316	B	0.02	4316
234	B	0.05	15015	B	0.05	15015	B	0.04	15015	B	0.04	15015	B	0.05	15015	B	0.05	15015	B	0.04	15015	B	0.05	15015
235	B	0.03	4283	B	0.03	4283	B	0.02	4283	B	0.02	4283	B	0.02	4283	B	0.03	4283	B	0.02	4283	B	0.02	4283
236	B	0.05	16396	B	0.06	16396	B	0.05	16396	B	0.05	16396	B	0.05	16396	B	0.06	16396	B	0.04	16396	B	0.06	16396
237	B	0.02	716	B	0.02	716	B	0.01	716	B	0.02	716	B	0.01	716	B	0.02	716	B	0.01	716	B	0.03	716
238	B	0.04	11558	B	0.04	11558	B	0.03	11558	B	0.03	11558	B	0.04	11558	B	0.04	11558	B	0.03	11558	B	0.02	11558
239	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.02	78
240	A	0.01	113	A	0.02	113	A	0.01	113	A	0.01	113	A	0.01	113	A	0.01	113	A	0.01	113	A	0.02	113
241	A	0.01	141	A	0.01	141	A	0.01	141	A	0.01	141	A	0.01	141	A	0.01	141	A	0.01	141	A	0.02	141
242	A	0.01	121	A	0.01	121	A	0.01	121	A	0.	121	A	0.01	121	A	0.01	121	A	0.	121	A	0.	121
243	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.	121	A	0.02	121
244	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.01	121	A	0.02	121
245	A	0.01	341	A	0.01	341	A	0.01	341	A	0.01	341	A	0.01	341	A	0.01	341	A	0.01	341	A	0.	341
246	A	0.01	341	A	0.01	341	A	0.01	341	A	0.01	341	A	0.01	341	A	0.01	341	A	0.01	341	A	0.02	341
247	B	0.02	516	B	0.04	516	B	0.03	516	B	0.03	516	B	0.03	516	B	0.03	516	B	0.01	516	B	0.02	516
248	A	0.03	243	A	0.04	243	A	0.03	243	A	0.03	243	A	0.03	243	A	0.03	243	A	0.01	243	A	0.02	243
249	A	0.04	489	A	0.05	489	A	0.04	489	A	0.04	489	A	0.04	489	A	0.04	489	A	0.02	489	A	0.03	489
250	B	0.05	1075	B	0.05	1840	B	0.04	1840	B	0.04	1840	B	0.03	1840	B	0.04	1840	B	0.02	1840	B	0.03	1840
251	B	0.05	1421	B	0.06	3153	B	0.04	3153	B	0.04	3153	B	0.03	3153	B	0.04	3153	B	0.02	3153	B	0.03	3153
252	B	0.03	1526	B	0.03	1526	B	0.02	1526	B	0.02	1526	B	0.03	1526	B	0.03	1526	B	0.02	1526	B	0.03	1526
253	B	0.04	547	B	0.05	547	B	0.04	547	B	0.04	547	B	0.03	547	B	0.05	547	B	0.03	547	B	0.05	547
254	B	0.07	3863	B	0.08	3863	B	0.06	3863	B	0.06	3863	B	0.08	3863	B	0.09	3863	B	0.06	3863	B	0.09	3863
255	B	0.05	898	B	0.06	898	B	0.04	898	B	0.04	898	B	0.04	898	B	0.05	898	B	0.04	898	B	0.06	898
256	B	0.06	1079	B	0.07	1079	B	0.05	1079	B	0.05	1079	B	0.06	1079	B	0.07	1079	B	0.05	1079	B	0.08	1079
257	B	0.08	3024	B	0.1	3024	B	0.08	3024	B	0.08	3024	B	0.1	3024	B	0.1	3024	B	0.08	3024	B	0.12	3024
258	B	0.	247	B	0.	247	B	0.	247	B	0.	247	B	0.	247	B	0.	247	B	0.	247	B	0.	247
259	A	0.	199	A	0.	199	A	0.	199	A	0.	199	A	0.	199	A	0.	199	A	0.	199	A	0.	199
260	A	0.	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
261	A	0.	252	A	0.	252	A	0.	252	A	0.	252	A	0.	252	A	0.	252	A	0.	252	A	0.	252
262	A	0.01	249	A	0.02	249	A	0.01	249	A	0.01	249	A	0.01	249	A	0.01	249	A	0.	249	A	0.02	249
263	A	0.	557	A	0.01	557	A	0.	557	A	0.	557	A	0.	557	A	0.	557	A	0.	557	A	0.	557
264	A	0.	353	A	0.	353	A	0.	353	A	0.	353	A	0.	353	A	0.	353	A	0.	353	A	0.	353
265	A	0.02	558	A	0.02	558	A	0.01	558	A	0.01	558	A	0.01	558	A	0.01	558	A	0.01	558	A	0.	558
266	B	0.02	589	B	0.02	589	B	0.02	589	B	0.02	589	B	0.01	589	B	0.01	589	B	0.01	589	B	0.02	589
267	A	0.01	449	A	0.02	449	A	0.01	449	A	0.01	449	A	0.01	449	A	0.01	449	A	0.	449	A	0.	449
268	A	0.01	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.02	78	A	0.01	78	A	0.	78	A	0.	78
269	A	0.02	312	A	0.02	312	A	0.01	312	A	0.01	312	A	0.02	312	A	0.02	312	A	0.01	312	A	0.	312
270	A	0.02	561	A	0.02	553	A	0.01	553	A	0.02	553	A	0.01	553	A	0.02	553	A	0.01	553	A	0.02	553
271	A	0.01	154	A	0.01	196	A	0.01	196	A	0.01	196	A	0.	196	A	0.01	196	A	0.01	196	A	0.02	196
272	B	0.02	686	B	0.02	659	B	0.01	659	B	0.02	659	B	0.01	659	B	0.02	659	B	0.01	659	B	0.02	659
273	A	0.02	366	B	0.02	509	B	0.01	509	B	0.01	509	B	0.01	509	B	0.02	509	B	0.01	509	B	0.02	509
274	A	0.01	72	A	0.02	72	A	0.01	72	A	0.01	72	A	0.01	72	A	0.01	72	A	0.01	72	A	0.	72
275	A	0.02	149	A	0.03	149	A	0.02	149	A	0.02	149	A	0.02	149	A	0.02	149	A	0.01	149	A	0.02	149
276	A	0.03	191	A	0.03	191	A	0.03	191	A	0.03	191	A	0.03	191	A	0.03	191	A	0.02	191	A	0.03	191
277	A	0.01	49	A	0.01	49	A	0.01	49	A	0.01	49	A	0.01	49	A	0.01	49	A	0.	49	A	0.	49
278	A	0.02	185	A	0.02	185	A	0.02	185	A	0.02	185	A	0.03	185	A	0.02	185	A	0.02	185	A	0.02	185
279	B	0.08	320	B	0.09	320	B	0.08	320	B	0.08	320	B	0.08	320	B	0.1	320	B	0.07	320	B	0.09	320
280	A	0.02	65	A	0.02	65	A	0.01	65	A	0.01	65	A	0.01	65	A	0.02	65	A	0.01	65	A	0.02	65
281	A	0.02	149	A	0.03	149	A	0.02	149	A	0.02	149	A	0.02	149	A	0.02	149	A	0.02	149	A	0.03	149
282	A	0.02	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.01	77	A	0.03	77
283	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.02	27
284	A	0.02	119	A	0.02	119	A	0.02	119	A	0.02	119	A	0.02	119	A	0.02	119	A	0.01	119	A	0.02	119
285	A	0.02	140	A	0.02	140	A	0.02	140	A	0.02	140	A	0.02	140	A	0.02	140	A	0.01	140	A	0.02	140
286	A	0.01	101	A	0.01	101	A	0.01	101	A	0.01	101	A	0.	101	A	0.01	101	A	0.01	101	A	0.	101
287	A	0.01	101	A	0.01	101	A	0.	101	A	0.01	101	A	0.	101	A	0.01	101	A	0.	101	A	0.	101
288	A	0.02	489	A	0.01	489	A	0.01	489	A	0.01	489	A	0.01	489	A	0.01	489	A	0.01	489	A	0.02	489

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
289	A	0.02	489	A	0.02	489	A	0.01	489	A	0.01	489	A	0.01	489	A	0.02	489	A	0.01	489	A	0.02	489
290	B	0.09	578	B	0.1	1172	B	0.08	1172	B	0.08	1172	B	0.08	1172	B	0.09	1172	B	0.03	1172	B	0.05	1172
291	B	0.12	1370	B	0.16	4189	B	0.12	4189	B	0.12	4189	B	0.11	4189	B	0.14	4189	B	0.04	4189	B	0.06	4189
292	B	0.13	3518	B	0.16	3518	B	0.14	3518	B	0.16	3518	B	0.13	3518	B	0.17	3511	B	0.08	3511	B	0.16	3518
293	B	0.05	2561	B	0.06	2561	B	0.05	2561	B	0.05	2561	B	0.05	2561	B	0.06	2561	B	0.04	2561	B	0.05	2561
294	B	0.07	7383	B	0.09	7383	B	0.07	7383	B	0.07	7383	B	0.06	7383	B	0.08	7383	B	0.06	7383	B	0.09	7383
295	B	0.06	2127	B	0.06	2127	B	0.04	2127	B	0.05	2127	B	0.06	2127	B	0.06	2127	B	0.04	2127	B	0.06	2127
296	B	0.02	1271	B	0.03	1271	B	0.02	1271	B	0.02	1271	B	0.01	1271	B	0.05	1271	B	0.05	1271	B	0.06	1271
297	A	0.	152	A	0.	152	A	0.	152	A	0.	152	A	0.	152	A	0.	152	A	0.	152	A	0.	152
298	B	0.	554	B	0.	554	B	0.	554	B	0.	554	B	0.	554	B	0.	554	B	0.	554	B	0.	554
299	A	0.	428	A	0.	428	A	0.	428	A	0.	428	A	0.	428	A	0.	428	A	0.	428	A	0.	428
300	A	0.	176	A	0.	176	A	0.	176	A	0.	176	A	0.	176	A	0.	176	A	0.	176	A	0.	176
301	B	0.02	978	B	0.02	978	B	0.02	978	B	0.02	978	B	0.01	978	B	0.02	978	B	0.01	978	B	0.	978
302	B	0.01	264	B	0.01	264	B	0.01	264	B	0.01	264	B	0.01	264	B	0.01	264	B	0.	264	B	0.02	264
303	B	0.04	1177	B	0.04	1504	B	0.02	1504	B	0.03	1504	B	0.02	1504	B	0.03	1504	B	0.01	1504	B	0.03	1504
304	B	0.04	2485	B	0.03	3899	B	0.02	3899	B	0.02	3899	B	0.03	3899	B	0.03	3899	B	0.01	3899	B	0.02	3899
305	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
306	B	0.03	1537	B	0.03	1537	B	0.02	1537	B	0.02	1537	B	0.02	1537	B	0.03	1537	B	0.02	1537	B	0.03	1537
307	B	0.01	235	B	0.01	235	B	0.01	235	B	0.01	235	B	0.	235	B	0.01	235	B	0.01	235	B	0.02	235
308	B	0.03	3088	B	0.03	3088	B	0.02	3088	B	0.02	3088	B	0.02	3088	B	0.03	3088	B	0.01	3088	B	0.02	3088
309	B	0.01	401	B	0.02	401	B	0.01	401	B	0.01	401	B	0.	401	B	0.02	401	B	0.01	401	B	0.02	401
310	B	0.04	15982	B	0.05	15982	B	0.04	15982	B	0.04	15982	B	0.03	15982	B	0.04	15982	B	0.03	15982	B	0.05	15982
311	B	0.05	18705	B	0.06	18705	B	0.04	18705	B	0.04	18705	B	0.04	18705	B	0.06	18705	B	0.03	18705	B	0.05	18705
312	B	0.01	350	B	0.01	350	B	0.01	350	B	0.01	350	B	0.	350	B	0.01	350	B	0.01	350	B	0.02	350
313	B	0.03	2659	B	0.03	2659	B	0.02	2659	B	0.02	2659	B	0.02	2659	B	0.02	2659	B	0.02	2659	B	0.03	2659
314	A	0.01	15	A	0.01	15	A	0.	15	A	0.01	15	A	0.	15	A	0.01	15	A	0.	15	A	0.	15
315	B	0.02	795	B	0.02	795	B	0.01	795	B	0.01	795	B	0.02	795	B	0.02	795	B	0.01	795	B	0.02	795
316	B	0.02	795	B	0.02	795	B	0.01	795	B	0.01	795	B	0.	795	B	0.01	795	B	0.01	795	B	0.02	795

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
317	B	0.05	927	B	0.08	927	B	0.06	927	B	0.06	927	B	0.06	927	B	0.07	927	B	0.02	927	B	0.03	927
318	B	0.07	1962	B	0.09	1962	B	0.07	1962	B	0.07	1962	B	0.05	1962	B	0.08	1962	B	0.02	1962	B	0.05	1962
319	B	0.06	2977	B	0.07	2977	B	0.05	2977	B	0.05	2977	B	0.05	2977	B	0.06	2977	B	0.04	2977	B	0.06	2977
320	B	0.11	1366	B	0.12	1366	B	0.08	1366	B	0.09	1366	B	0.1	1366	B	0.11	1364	B	0.07	1366	B	0.08	1364
321	B	0.04	5439	B	0.04	5439	B	0.03	5439	B	0.03	5439	B	0.03	5439	B	0.18	5439	B	0.15	5439	B	0.33	5439
322	B	0.	244	B	0.	244	B	0.	244	B	0.	244	B	0.	244	B	0.	244	B	0.	244	B	0.	244
323	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94
324	B	0.01	197	B	0.01	197	B	0.	197	B	0.01	197	B	0.	197	B	0.	197	B	0.	197	B	0.02	197
325	B	0.01	242	B	0.02	242	B	0.01	242	B	0.01	242	B	0.01	242	B	0.01	242	B	0.	242	B	0.	242
326	B	0.	821	B	0.01	821	B	0.	821	B	0.	821	B	0.	821	B	0.	821	B	0.	821	B	0.	821
327	B	0.01	521	B	0.01	521	B	0.01	521	B	0.01	521	B	0.	521	B	0.01	521	B	0.	521	B	0.	521
328	B	0.02	601	B	0.02	601	B	0.01	601	B	0.02	601	B	0.02	601	B	0.01	601	B	0.	601	B	0.02	601
329	B	0.02	626	B	0.03	626	B	0.02	626	B	0.02	626	B	0.01	626	B	0.01	626	B	0.	626	B	0.02	626
330	B	0.02	641	B	0.02	641	B	0.02	641	B	0.02	641	B	0.01	641	B	0.01	641	B	0.01	641	B	0.02	641
331	B	0.01	430	B	0.02	430	B	0.01	430	B	0.01	430	B	0.01	430	B	0.01	430	B	0.	430	B	0.	430
332	B	0.01	430	B	0.01	430	B	0.01	430	B	0.01	430	B	0.01	430	B	0.01	430	B	0.	430	B	0.	430
333	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.	39	A	0.	39
334	A	0.02	123	A	0.02	123	A	0.01	123	A	0.01	123	A	0.02	123	A	0.01	123	A	0.	123	A	0.	123
335	A	0.02	289	A	0.03	289	A	0.02	289	A	0.02	289	A	0.02	289	A	0.02	289	A	0.01	289	A	0.02	289
336	B	0.01	251	B	0.01	251	B	0.01	251	B	0.01	251	B	0.01	251	B	0.01	251	B	0.	251	B	0.02	251
337	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.	79	A	0.	79
338	A	0.01	42	A	0.01	42	A	0.	42	A	0.	42	A	0.	42	A	0.01	42	A	0.	42	A	0.	42
339	C	0.03	146	C	0.03	146	C	0.02	146	C	0.02	146	C	0.02	146	C	0.02	146	C	0.01	146	C	0.02	146
340	A	0.01	86	A	0.01	86	A	0.01	86	A	0.01	86	A	0.	86	A	0.01	86	A	0.01	86	A	0.	86
341	B	0.02	540	B	0.02	540	B	0.01	540	B	0.02	540	B	0.02	540	B	0.03	540	B	0.01	540	B	0.02	540
342	B	0.02	394	B	0.03	394	B	0.02	394	B	0.02	394	B	0.02	394	B	0.03	394	B	0.01	394	B	0.03	394
343	B	0.02	316	B	0.02	316	B	0.01	316	B	0.01	316	B	0.02	316	B	0.02	316	B	0.01	316	B	0.02	316
344	B	0.04	1205	B	0.04	1205	B	0.03	1205	B	0.03	1205	B	0.03	1205	B	0.03	1205	B	0.02	1205	B	0.03	1205

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
345	B	0.02	688	B	0.02	688	B	0.01	688	B	0.01	688	B	0.02	688	B	0.02	688	B	0.01	688	B	0.	688
346	A	0.02	689	A	0.03	689	A	0.02	689	A	0.02	689	A	0.02	689	A	0.02	689	A	0.02	689	A	0.03	689
347	A	0.02	212	A	0.02	212	A	0.01	212	A	0.01	212	A	0.02	212	A	0.02	212	A	0.01	212	A	0.02	212
348	A	0.01	43	A	0.01	43	A	0.	43	A	0.	43	A	0.01	43	A	0.01	43	A	0.	43	A	0.	43
349	A	0.01	75	A	0.02	76	A	0.01	76	A	0.01	76	A	0.01	76	A	0.02	76	A	0.01	76	A	0.02	75
350	B	0.03	544	B	0.04	545	B	0.03	545	B	0.02	545	B	0.03	545	B	0.03	545	B	0.02	545	B	0.02	544
351	A	0.01	32	A	0.01	32	A	0.	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.02	32
352	B	0.04	826	B	0.04	828	B	0.03	828	B	0.03	828	B	0.02	828	B	0.04	828	B	0.02	828	B	0.03	826
353	B	0.03	1153	B	0.03	1153	B	0.02	1153	B	0.02	1153	B	0.02	1153	B	0.03	1153	B	0.01	1153	B	0.02	1153
354	B	0.03	735	B	0.04	735	B	0.02	735	B	0.03	735	B	0.03	735	B	0.03	735	B	0.01	735	B	0.03	735
355	B	0.03	385	B	0.03	385	B	0.02	385	B	0.02	385	B	0.02	385	B	0.03	385	B	0.01	385	B	0.02	385
356	A	0.01	174	A	0.02	174	A	0.01	174	A	0.01	174	A	0.	174	A	0.02	174	A	0.01	174	A	0.02	174
357	A	0.01	77	A	0.01	77	A	0.01	77	A	0.01	77	A	0.02	77	A	0.01	77	A	0.01	77	A	0.02	77
358	A	0.01	33	A	0.01	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.01	33	A	0.01	33	A	0.	33
359	A	0.02	169	A	0.02	169	A	0.01	169	A	0.01	169	A	0.01	169	A	0.01	169	A	0.01	169	A	0.02	169
360	A	0.02	169	A	0.02	169	A	0.01	169	A	0.01	169	A	0.01	169	A	0.01	169	A	0.01	169	A	0.02	169
361	B	0.02	469	B	0.02	469	B	0.01	469	B	0.01	469	B	0.01	469	B	0.02	469	B	0.01	469	B	0.02	469
362	B	0.02	469	B	0.02	469	B	0.01	469	B	0.01	469	B	0.02	469	B	0.02	469	B	0.01	469	B	0.02	469
363	B	0.02	913	B	0.02	913	B	0.02	913	B	0.02	913	B	0.02	913	B	0.02	913	B	0.01	913	B	0.02	913
364	B	0.02	913	B	0.02	913	B	0.02	913	B	0.02	913	B	0.02	913	B	0.02	913	B	0.01	913	B	0.02	913
365	B	0.03	626	B	0.04	1213	B	0.03	1213	B	0.03	1213	B	0.04	1213	B	0.03	1213	B	0.02	1213	B	0.03	1213
366	B	0.05	905	B	0.05	3957	B	0.04	3957	B	0.04	3957	B	0.04	3957	B	0.04	3957	B	0.02	3957	B	0.03	3957
367	B	0.04	573	B	0.04	2953	B	0.03	2953	B	0.03	2953	B	0.04	2953	B	0.03	2953	B	0.02	2953	B	0.03	2953
368	B	0.04	494	B	0.03	1130	B	0.02	1130	B	0.02	1130	B	0.02	1130	B	0.03	1130	B	0.02	1130	B	0.03	1130
369	B	0.08	1653	B	0.07	784	B	0.06	784	B	0.06	784	B	0.03	784	B	0.05	784	B	0.03	784	B	0.05	784
370	A	0.01	88	A	0.01	88	A	0.01	88	A	0.01	88	A	0.	88	A	0.01	88	A	0.01	88	A	0.02	88
371	A	0.02	317	A	0.02	317	A	0.01	317	A	0.01	317	A	0.02	317	A	0.02	317	A	0.01	317	A	0.02	317
372	A	0.02	317	A	0.02	317	A	0.01	317	A	0.01	317	A	0.01	317	A	0.02	317	A	0.01	317	A	0.02	317

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
373	A	0.02	317	A	0.02	317	A	0.01	317	A	0.01	317	A	0.02	317	A	0.02	317	A	0.01	317	A	0.02	317
374	A	0.02	689	A	0.02	689	A	0.01	689	A	0.01	689	A	0.02	689	A	0.02	689	A	0.01	689	A	0.02	689
375	A	0.02	689	A	0.02	689	A	0.01	689	A	0.01	689	A	0.01	689	A	0.02	689	A	0.01	689	A	0.02	689
376	A	0.02	689	A	0.02	689	A	0.01	689	A	0.01	689	A	0.01	689	A	0.02	689	A	0.01	689	A	0.02	689
377	B	0.02	1150	B	0.02	1042	B	0.01	1042	B	0.01	1042	B	0.02	1042	B	0.04	1042	B	0.02	1042	B	0.03	1042
378	B	0.06	1860	B	0.06	1860	B	0.05	1860	B	0.05	1860	B	0.04	1860	B	0.05	1860	B	0.02	1860	B	0.03	1860
379	B	0.03	1286	B	0.03	1286	B	0.02	1286	B	0.02	1286	B	0.02	1286	B	0.05	1286	B	0.04	1286	B	0.05	1286
380	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
381	A	0.02	174	A	0.02	174	A	0.01	174	A	0.01	174	A	0.01	174	A	0.02	174	A	0.01	174	A	0.02	174
382	B	0.	244	B	0.	244	B	0.	244	B	0.	244	B	0.	244	B	0.	244	B	0.	244	B	0.	244
383	B	0.	688	B	0.	688	B	0.	688	B	0.	688	B	0.	688	B	0.	688	B	0.	688	B	0.	688
384	B	0.	301	B	0.	301	B	0.	301	B	0.	301	B	0.	301	B	0.	301	B	0.	301	B	0.	301
385	B	0.01	539	B	0.01	539	B	0.01	539	B	0.01	539	B	0.02	539	B	0.01	539	B	0.	539	B	0.	539
386	B	0.02	571	B	0.02	571	B	0.01	571	B	0.01	571	B	0.02	571	B	0.01	571	B	0.01	571	B	0.	571
387	B	0.02	599	B	0.02	599	B	0.01	599	B	0.02	599	B	0.01	599	B	0.01	599	B	0.01	599	B	0.02	599
388	A	0.	133	A	0.01	133	A	0.	133	A	0.	133	A	0.	133	A	0.	133	A	0.	133	A	0.	133
389	A	0.02	109	A	0.02	109	A	0.02	109	A	0.01	109	A	0.02	109	A	0.02	109	A	0.01	109	A	0.02	109
390	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.	35	A	0.01	35	A	0.	35	A	0.	35
391	A	0.02	125	A	0.02	125	A	0.01	125	A	0.02	125	A	0.01	125	A	0.02	125	A	0.01	125	A	0.	125
392	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.01	107	A	0.	107	A	0.	107
393	C	0.02	112	C	0.03	112	C	0.02	112	C	0.02	112	C	0.03	112	C	0.03	112	C	0.01	112	C	0.03	112
394	A	0.01	78	A	0.02	78	A	0.01	78	A	0.01	78	A	0.	78	A	0.02	78	A	0.01	78	A	0.02	78
395	B	0.02	489	B	0.02	489	B	0.01	489	B	0.01	489	B	0.02	489	B	0.02	489	B	0.01	489	B	0.02	489
396	B	0.01	264	B	0.01	264	B	0.01	264	B	0.01	264	B	0.	264	B	0.01	264	B	0.01	264	B	0.02	264
397	B	0.02	925	B	0.02	925	B	0.01	925	B	0.01	925	B	0.02	925	B	0.02	925	B	0.01	925	B	0.02	925
398	B	0.02	271	B	0.02	271	B	0.01	271	B	0.01	271	B	0.02	271	B	0.01	271	B	0.01	271	B	0.02	271
399	B	0.01	162	B	0.01	162	B	0.01	162	B	0.01	162	B	0.01	162	B	0.01	162	B	0.01	162	B	0.	162
400	B	0.01	82	B	0.01	82	B	0.	82	B	0.	82	B	0.01	82	B	0.01	82	B	0.	82	B	0.	82

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
401	B	0.03	601	B	0.04	601	B	0.02	601	B	0.02	601	B	0.02	601	B	0.03	601	B	0.01	601	B	0.	601
402	B	0.03	670	B	0.03	670	B	0.02	670	B	0.02	670	B	0.03	670	B	0.03	670	B	0.01	670	B	0.02	670
403	B	0.02	392	B	0.02	392	B	0.02	392	B	0.01	392	B	0.02	392	B	0.02	392	B	0.01	392	B	0.02	392
404	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.01	392	A	0.03	392
405	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.01	392	A	0.	392
406	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.02	392	A	0.01	392	A	0.02	392
407	A	0.	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.01	36	A	0.	36	A	0.02	36
408	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.01	25	A	0.	25	A	0.	25
409	B	0.03	321	B	0.03	321	B	0.02	321	B	0.02	321	B	0.03	321	B	0.02	321	B	0.01	321	B	0.02	321
410	A	0.03	332	A	0.04	331	A	0.02	331	A	0.02	331	A	0.03	331	A	0.03	331	A	0.02	331	A	0.02	332
411	A	0.03	251	A	0.04	251	A	0.02	251	A	0.02	251	A	0.03	251	A	0.03	251	A	0.01	251	A	0.02	251
412	A	0.02	116	A	0.02	116	A	0.01	116	A	0.01	116	A	0.02	116	A	0.01	116	A	0.01	116	A	0.02	116
413	B	0.01	273	B	0.01	273	B	0.01	273	B	0.01	273	B	0.02	273	B	0.01	273	B	0.01	273	B	0.02	273
414	B	0.01	273	B	0.01	273	B	0.01	273	B	0.01	273	B	0.	273	B	0.01	273	B	0.01	273	B	0.02	273
415	B	0.01	273	B	0.01	273	B	0.01	273	B	0.01	273	B	0.	273	B	0.01	273	B	0.01	273	B	0.02	273
416	B	0.01	498	B	0.02	498	B	0.01	498	B	0.01	498	B	0.01	498	B	0.01	498	B	0.01	498	B	0.02	498
417	B	0.01	380	B	0.02	380	B	0.01	380	B	0.01	380	B	0.01	380	B	0.01	380	B	0.01	380	B	0.02	380
418	B	0.01	263	B	0.02	263	B	0.01	263	B	0.01	263	B	0.01	263	B	0.01	263	B	0.01	263	B	0.02	263
419	B	0.03	318	B	0.03	2341	B	0.02	2341	B	0.02	2341	B	0.02	2341	B	0.02	2341	B	0.01	2341	B	0.02	2341
420	A	0.02	179	A	0.02	179	A	0.02	179	A	0.02	179	A	0.02	179	A	0.02	179	A	0.01	179	A	0.02	179
421	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.	79
422	A	0.01	202	A	0.02	202	A	0.01	202	A	0.01	202	A	0.01	202	A	0.02	202	A	0.01	202	A	0.02	202
423	A	0.01	202	A	0.02	202	A	0.01	202	A	0.01	202	A	0.02	202	A	0.02	202	A	0.01	202	A	0.02	202
424	A	0.01	393	A	0.02	393	A	0.01	393	A	0.01	393	A	0.01	393	A	0.02	393	A	0.01	393	A	0.02	393
425	A	0.02	393	A	0.02	393	A	0.01	393	A	0.01	393	A	0.02	393	A	0.02	393	A	0.01	393	A	0.02	393
426	A	0.02	393	A	0.02	393	A	0.01	393	A	0.01	393	A	0.02	393	A	0.02	393	A	0.01	393	A	0.02	393
427	A	0.	27	A	0.01	27	A	0.	27	A	0.	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.	27
428	B	0.03	662	B	0.04	662	B	0.02	662	B	0.02	662	B	0.03	662	B	0.03	662	B	0.01	662	B	0.02	662

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
429	B	0.03	638	B	0.04	595	B	0.02	595	B	0.03	595	B	0.03	595	B	0.03	595	B	0.01	595	B	0.03	595
430	B	0.04	431	B	0.05	431	B	0.03	431	B	0.03	431	B	0.03	431	B	0.03	431	B	0.02	431	B	0.03	431
431	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
432	B	0.02	784	B	0.02	784	B	0.02	784	B	0.02	784	B	0.02	784	B	0.04	784	B	0.02	784	B	0.05	784
433	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
434	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
435	A	0.01	59	A	0.01	59	A	0.01	59	A	0.	59	A	0.	59	A	0.01	59	A	0.01	59	A	0.02	59
436	B	0.02	407	B	0.02	407	B	0.01	407	B	0.01	407	B	0.01	407	B	0.02	409	B	0.02	409	B	0.02	409
437	A	0.01	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.01	45	A	0.02	45
438	B	0.05	2217	B	0.05	2217	B	0.04	2217	B	0.04	2217	B	0.03	2217	B	0.04	2217	B	0.03	2217	B	0.05	2217
439	B	0.02	697	B	0.02	697	B	0.02	697	B	0.02	697	B	0.02	697	B	0.02	727	B	0.02	727	B	0.02	727
440	A	0.02	382	A	0.02	382	A	0.02	382	A	0.02	382	A	0.02	382	A	0.02	382	A	0.02	382	A	0.03	382
441	B	0.05	3576	B	0.06	3576	B	0.04	3576	B	0.04	3576	B	0.04	3576	B	0.05	3576	B	0.04	3576	B	0.05	3576
442	B	0.03	2535	B	0.04	2535	B	0.03	2535	B	0.03	2535	B	0.03	2535	B	0.03	2595	B	0.02	2595	B	0.03	2595
443	A	0.02	128	A	0.02	128	A	0.01	128	A	0.01	128	A	0.02	128	A	0.02	128	A	0.01	128	A	0.02	128
444	A	0.03	564	A	0.03	564	A	0.02	564	A	0.02	564	A	0.02	564	A	0.03	564	A	0.02	564	A	0.03	564
445	A	0.02	236	A	0.02	236	A	0.01	236	A	0.02	236	A	0.02	236	A	0.02	236	A	0.01	236	A	0.02	236
446	A	0.02	134	A	0.02	134	A	0.02	134	A	0.02	134	A	0.02	134	A	0.02	139	A	0.01	139	A	0.02	139
447	A	0.02	236	A	0.02	236	A	0.01	236	A	0.02	236	A	0.02	236	A	0.02	236	A	0.01	236	A	0.03	236
448	A	0.02	228	A	0.02	228	A	0.02	228	A	0.02	228	A	0.02	228	A	0.02	228	A	0.01	228	A	0.03	228
449	B	0.02	782	B	0.02	782	B	0.02	782	B	0.02	782	B	0.02	782	B	0.03	782	B	0.02	782	B	0.03	782
450	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.02	79
451	A	0.02	535	A	0.02	535	A	0.01	535	A	0.01	535	A	0.01	535	A	0.02	535	A	0.01	535	A	0.02	535
452	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.02	79
453	A	0.01	79	A	0.01	79	A	0.01	79	A	0.01	79	A	0.	79	A	0.01	79	A	0.01	79	A	0.	79
454	A	0.04	161	A	0.03	161	A	0.03	161	A	0.03	161	A	0.03	161	A	0.04	161	A	0.02	161	A	0.05	161
455	B	0.04	328	B	0.04	328	B	0.03	328	B	0.03	328	B	0.03	328	B	0.04	328	B	0.02	328	B	0.05	328
456	B	0.05	630	B	0.04	630	B	0.03	630	B	0.03	630	B	0.03	630	B	0.04	630	B	0.03	630	B	0.03	630

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
457	B	0.05	479	B	0.05	479	B	0.04	479	B	0.04	479	B	0.05	479	B	0.05	479	B	0.03	479	B	0.03	479
458	B	0.05	824	B	0.06	824	B	0.05	824	B	0.05	824	B	0.05	824	B	0.06	824	B	0.04	824	B	0.06	824
459	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
460	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
461	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58
462	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.02	23	A	0.	23	A	0.	23	A	0.	23
463	A	0.02	116	A	0.02	114	A	0.01	114	A	0.02	114	A	0.02	114	A	0.02	114	A	0.01	114	A	0.02	114
464	B	0.06	596	B	0.06	596	B	0.04	616	B	0.05	616	B	0.04	616	B	0.05	616	B	0.03	616	B	0.05	616
465	A	0.	167	A	0.01	167	A	0.	167	A	0.	167	A	0.	167	A	0.	167	A	0.	167	A	0.	167
466	B	0.01	558	B	0.01	558	B	0.01	558	B	0.01	558	B	0.01	558	B	0.01	558	B	0.	558	B	0.	558
467	A	0.	1041	A	0.01	1041	A	0.	1041	A	0.	1041	A	0.	1041	A	0.	1041	A	0.	1041	A	0.	1041
468	A	0.02	1067	A	0.02	1067	A	0.01	1067	A	0.01	1067	A	0.02	1067	A	0.02	1067	A	0.	1067	A	0.	1067
469	B	0.01	281	B	0.01	281	B	0.01	281	B	0.01	281	B	0.01	281	B	0.02	281	B	0.01	281	B	0.02	281
470	A	0.	139	A	0.	139	A	0.	139	A	0.	139	A	0.	139	A	0.	139	A	0.	139	A	0.	139
471	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73
472	A	0.01	93	A	0.01	93	A	0.01	93	A	0.01	93	A	0.	93	A	0.01	93	A	0.	93	A	0.	93
473	B	0.01	343	B	0.02	343	B	0.01	343	B	0.01	343	B	0.02	343	B	0.01	343	B	0.	343	B	0.	343
474	B	0.02	1014	B	0.02	1854	B	0.01	1854	B	0.01	1854	B	0.02	1854	B	0.02	1854	B	0.01	1854	B	0.02	1854
475	B	0.06	11600	B	0.04	2182	B	0.03	2182	B	0.04	2182	B	0.03	2182	B	0.04	2182	B	0.02	2182	B	0.03	2182
476	B	0.08	17159	B	0.06	4597	B	0.05	4597	B	0.05	4597	B	0.03	4597	B	0.05	4597	B	0.02	4597	B	0.03	4597
477	A	0.01	24	A	0.02	24	A	0.01	24	A	0.01	24	A	0.02	24	A	0.01	24	A	0.	24	A	0.02	24
478	A	0.01	19	A	0.02	19	A	0.01	19	A	0.01	19	A	0.02	19	A	0.01	19	A	0.01	19	A	0.	19
479	A	0.02	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.01	42	A	0.	42
480	A	0.01	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.02	32	A	0.01	32	A	0.	32	A	0.02	32
481	A	0.01	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.02	32	A	0.01	32	A	0.	32	A	0.02	32
482	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.01	49	A	0.	49
483	A	0.02	67	A	0.02	67	A	0.02	67	A	0.02	67	A	0.03	67	A	0.02	67	A	0.01	67	A	0.02	67
484	A	0.02	48	A	0.02	48	A	0.01	48	A	0.01	48	A	0.02	48	A	0.01	48	A	0.	48	A	0.02	48

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
485	A	0.02	96	A	0.02	96	A	0.02	96	A	0.02	96	A	0.02	96	A	0.02	96	A	0.01	96	A	0.02	96
486	A	0.01	183	A	0.02	183	A	0.01	183	A	0.01	183	A	0.02	183	A	0.01	183	A	0.01	183	A	0.02	183
487	A	0.02	179	A	0.03	179	A	0.02	179	A	0.02	179	A	0.02	179	A	0.02	179	A	0.01	179	A	0.02	179
488	A	0.08	332	A	0.08	332	A	0.08	332	A	0.08	332	A	0.08	332	A	0.09	332	A	0.06	332	A	0.09	332
489	A	0.02	153	A	0.02	153	A	0.02	153	A	0.02	153	A	0.02	153	A	0.02	153	A	0.01	153	A	0.02	153
490	A	0.02	253	A	0.03	253	A	0.02	253	A	0.02	253	A	0.02	253	A	0.02	253	A	0.01	253	A	0.02	253
491	A	0.02	274	A	0.02	274	A	0.02	274	A	0.02	274	A	0.02	274	A	0.02	274	A	0.01	274	A	0.02	274
492	B	0.02	981	B	0.02	981	B	0.02	981	B	0.02	981	B	0.02	981	B	0.02	981	B	0.02	981	B	0.03	981
493	B	0.03	2204	B	0.03	2204	B	0.02	2204	B	0.02	2204	B	0.02	2204	B	0.02	2204	B	0.02	2204	B	0.02	2204
494	B	0.03	3898	B	0.03	3898	B	0.02	3898	B	0.02	3898	B	0.03	3898	B	0.02	3898	B	0.02	3898	B	0.02	3898
495	B	0.02	1451	B	0.02	1451	B	0.02	1451	B	0.02	1451	B	0.02	1451	B	0.02	1451	B	0.01	1451	B	0.03	1451
496	B	0.02	2443	B	0.02	2443	B	0.02	2443	B	0.02	2443	B	0.02	2443	B	0.02	2443	B	0.02	2443	B	0.03	2443
497	B	0.03	2996	B	0.03	2996	B	0.02	2996	B	0.02	2996	B	0.02	2996	B	0.03	2996	B	0.02	2996	B	0.03	2996
498	B	0.04	6675	B	0.04	6675	B	0.03	6675	B	0.04	6675	B	0.03	6675	B	0.04	6675	B	0.03	6675	B	0.05	6675
499	B	0.02	1064	B	0.02	1064	B	0.02	1064	B	0.02	1064	B	0.02	1064	B	0.02	1064	B	0.02	1064	B	0.03	1064
500	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.02	28
501	A	0.02	127	A	0.02	127	A	0.02	127	A	0.02	127	A	0.03	127	A	0.02	127	A	0.01	127	A	0.	127
502	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.02	25	A	0.01	25	A	0.	25	A	0.	25
503	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.	35	A	0.01	35	A	0.01	35	A	0.	35
504	A	0.01	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.01	45	A	0.	45
505	A	0.01	45	A	0.01	45	A	0.01	45	A	0.01	45	A	0.	45	A	0.01	45	A	0.	45	A	0.	45
506	A	0.02	53	A	0.03	53	A	0.02	53	A	0.02	53	A	0.02	53	A	0.02	53	A	0.01	53	A	0.02	53
507	A	0.02	44	A	0.03	44	A	0.02	44	A	0.02	44	A	0.02	44	A	0.02	44	A	0.01	44	A	0.02	44
508	A	0.02	53	A	0.03	53	A	0.02	53	A	0.02	53	A	0.02	53	A	0.02	53	A	0.01	53	A	0.02	53
509	A	0.03	95	A	0.04	95	A	0.03	95	A	0.03	95	A	0.03	95	A	0.03	95	A	0.01	95	A	0.02	95
510	A	0.04	104	A	0.04	104	A	0.03	104	A	0.03	104	A	0.03	104	A	0.03	104	A	0.01	104	A	0.02	104
511	A	0.03	124	A	0.04	128	A	0.03	128	A	0.03	128	A	0.03	128	A	0.03	128	A	0.01	128	A	0.02	128
512	A	0.03	124	A	0.03	128	A	0.03	128	A	0.03	128	A	0.01	128	A	0.03	128	A	0.01	128	A	0.02	128

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Table 29 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
513	A	0.13	157	A	0.06	157	A	0.05	143	A	0.05	143	A	0.05	143	A	0.05	143	A	0.03	143	A	0.05	143
514	A	0.02	152	A	0.02	152	A	0.01	138	A	0.01	138	A	0.01	138	A	0.01	138	A	0.01	138	A	0.02	138
515	B	0.08	413	B	0.08	413	B	0.07	357	B	0.07	357	B	0.06	357	B	0.08	357	B	0.05	357	B	0.08	357
516	A	0.06	152	A	0.06	152	A	0.05	138	A	0.05	138	A	0.05	138	A	0.05	138	A	0.04	138	A	0.06	138
517	A	0.08	182	A	0.08	182	A	0.08	168	A	0.08	168	A	0.08	168	A	0.08	168	A	0.05	168	A	0.08	168
518	A	0.02	172	A	0.02	172	A	0.01	158	A	0.01	158	A	0.02	158	A	0.02	158	A	0.01	158	A	0.02	158
519	A	0.05	142	A	0.05	142	A	0.04	128	A	0.04	128	A	0.05	128	A	0.04	128	A	0.03	128	A	0.03	128
520	A	0.02	71	A	0.03	71	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.01	60	A	0.02	60
521	A	0.03	137	A	0.04	137	A	0.02	123	A	0.02	123	A	0.02	123	A	0.02	123	A	0.02	123	A	0.02	123
522	A	0.07	142	A	0.08	142	A	0.06	128	A	0.07	128	A	0.06	128	A	0.07	128	A	0.04	128	A	0.06	128
523	B	0.08	326	B	0.08	326	A	0.07	284	A	0.07	284	A	0.07	284	A	0.08	284	A	0.05	284	A	0.08	284
524	B	0.04	326	B	0.04	326	A	0.03	284	A	0.03	284	A	0.03	284	A	0.04	284	A	0.02	284	A	0.03	284
525	B	0.04	326	B	0.04	326	A	0.03	284	A	0.03	284	A	0.03	284	A	0.04	284	A	0.02	284	A	0.02	284
526	B	0.14	10385	B	0.16	10385	B	0.12	10385	B	0.12	10385	B	0.14	10385	B	0.16	10385	B	0.1	10385	B	0.17	10385
527	B	0.09	3171	B	0.11	3171	B	0.08	3171	B	0.08	3171	B	0.08	3171	B	0.11	3171	B	0.07	3171	B	0.09	3171
528	B	0.01	498	B	0.02	498	B	0.01	498	B	0.01	498	B	0.01	498	B	0.02	498	B	0.02	498	B	0.02	498
529	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.28 $1_Algebraic_functions\backslash 1.2Trinomialproducts\backslash 1.2.1Quadratic\backslash 1.2.1.4(d+ex)^m(f+gx)^n(a+bx+cx^2)^p$

Table 30: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	125	A	0.03	125	A	0.02	125	A	0.02	125	A	0.02	125	A	0.02	125	A	0.02	125	A	0.02	125
2	A	0.02	123	A	0.02	123	A	0.01	123	A	0.02	123	A	0.02	123	A	0.02	123	A	0.01	123	A	0.02	123
3	A	0.06	186	A	0.07	186	A	0.04	186	A	0.04	186	A	0.05	186	A	0.05	186	A	0.03	186	A	0.05	186
4	A	0.02	77	A	0.02	77	A	0.01	77	A	0.01	77	A	0.	77	A	0.01	77	A	0.01	77	A	0.02	77

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Table 30 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
5	A	0.04	149	A	0.05	149	A	0.02	149	A	0.02	149	A	0.02	149	A	0.03	149	A	0.02	149	A	0.03	149
6	A	0.02	124	A	0.02	124	A	0.01	124	A	0.02	124	A	0.02	124	A	0.02	124	A	0.01	124	A	0.02	124
7	A	0.01	98	A	0.02	98	A	0.01	98	A	0.01	98	A	0.02	98	A	0.01	98	A	0.01	98	A	0.02	98
8	A	0.02	114	A	0.03	114	A	0.02	114	A	0.02	114	A	0.02	114	A	0.02	114	A	0.01	114	A	0.02	114
9	A	0.03	164	A	0.03	164	A	0.02	164	A	0.02	164	A	0.02	164	A	0.03	164	A	0.02	164	A	0.03	164
10	A	0.03	193	A	0.03	193	A	0.02	193	A	0.02	193	A	0.02	193	A	0.02	193	A	0.02	193	A	0.02	193
11	A	0.04	249	A	0.04	249	A	0.03	249	A	0.03	249	A	0.03	249	A	0.03	249	A	0.02	249	A	0.03	249
12	A	0.04	191	A	0.04	191	A	0.03	191	A	0.03	191	A	0.02	191	A	0.03	191	A	0.02	191	A	0.05	191
13	A	0.02	154	A	0.02	154	A	0.01	154	A	0.01	154	A	0.02	154	A	0.01	154	A	0.01	154	A	0.02	154
14	A	0.03	252	A	0.04	252	A	0.02	252	A	0.02	252	A	0.01	252	A	0.03	252	A	0.02	252	A	0.03	252
15	A	0.06	327	A	0.07	327	A	0.04	327	A	0.04	327	A	0.05	327	A	0.05	327	A	0.03	327	A	0.06	327
16	A	0.82	303	A	0.89	303	A	0.47	303	A	0.46	303	A	0.44	303	A	0.57	303	A	0.39	303	A	0.73	303
17	B	0.11	262	B	0.12	262	B	0.06	262	B	0.06	262	B	0.06	262	B	0.08	262	B	0.05	262	B	0.09	262
18	B	0.04	280	B	0.04	280	B	0.03	280	B	0.03	280	B	0.03	280	B	0.03	280	B	0.02	280	B	0.03	280
19	B	0.02	222	B	0.02	222	B	0.02	222	B	0.02	222	B	0.02	222	B	0.02	222	B	0.01	222	B	0.03	222
20	B	0.02	305	B	0.02	305	B	0.02	305	B	0.02	305	B	0.02	305	B	0.02	305	B	0.01	305	B	0.03	305
21	B	0.02	439	B	0.03	439	B	0.02	439	B	0.02	439	B	0.02	439	B	0.02	439	B	0.01	439	B	0.02	439
22	B	0.12	546	B	0.13	546	B	0.07	546	B	0.07	546	B	0.06	546	B	0.09	546	B	0.06	546	B	0.09	546
23	A	0.02	147	A	0.02	147	A	0.02	147	A	0.02	147	A	0.02	147	A	0.02	147	A	0.01	147	A	0.02	147
24	A	0.02	97	A	0.02	97	A	0.01	97	A	0.01	97	A	0.02	97	A	0.02	97	A	0.01	97	A	0.02	97
25	A	0.02	88	A	0.02	88	A	0.02	88	A	0.02	88	A	0.02	88	A	0.02	88	A	0.01	88	A	0.02	88
26	A	0.01	48	A	0.02	48	A	0.01	48	A	0.01	48	A	0.	48	A	0.01	48	A	0.01	48	A	0.	48
27	A	0.03	188	A	0.03	188	A	0.02	188	A	0.02	188	A	0.02	188	A	0.03	188	A	0.02	188	A	0.03	188
28	A	0.01	70	A	0.02	70	A	0.01	70	A	0.01	70	A	0.02	70	A	0.01	70	A	0.01	70	A	0.02	70
29	A	0.02	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.	92	A	0.01	92	A	0.01	92	A	0.	92
30	A	0.02	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.02	92	A	0.01	92	A	0.01	92	A	0.02	92
31	A	0.02	65	A	0.02	65	A	0.01	65	A	0.01	65	A	0.02	65	A	0.02	65	A	0.01	65	A	0.02	65
32	B	0.03	303	B	0.03	303	B	0.02	303	B	0.02	303	B	0.03	303	B	0.02	303	B	0.02	303	B	0.02	303

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Table 30 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
33	B	0.02	290	B	0.02	290	B	0.02	290	B	0.02	290	B	0.02	290	B	0.02	290	B	0.01	290	B	0.02	290
34	A	0.03	199	A	0.03	199	A	0.02	199	A	0.02	199	A	0.02	199	A	0.03	199	A	0.02	199	A	0.02	199
35	B	0.03	214	B	0.04	214	B	0.03	214	B	0.03	214	B	0.03	214	B	0.03	214	B	0.02	214	B	0.03	214
36	B	0.02	389	B	0.03	389	B	0.02	389	B	0.02	389	B	0.02	389	B	0.02	389	B	0.02	389	B	0.	389
37	B	0.03	412	B	0.03	412	B	0.02	412	B	0.02	412	B	0.02	412	B	0.02	412	B	0.02	412	B	0.03	412
38	A	0.04	416	A	0.04	416	A	0.03	416	A	0.03	416	A	0.03	416	A	0.04	416	A	0.02	416	A	0.03	416
39	B	0.02	290	B	0.03	290	B	0.01	290	B	0.02	290	B	0.02	290	B	0.02	290	B	0.01	290	B	0.02	290
40	B	0.01	284	B	0.01	284	B	0.01	284	B	0.01	284	B	0.02	284	B	0.01	284	B	0.	284	B	0.	284
41	B	0.03	575	B	0.03	575	B	0.02	575	B	0.03	575	B	0.02	575	B	0.03	575	B	0.02	575	B	0.03	575
42	B	0.04	484	B	0.06	484	B	0.04	484	B	0.04	484	B	0.03	484	B	0.04	484	B	0.03	484	B	0.03	484
43	A	0.02	58	A	0.03	58	A	0.02	58	A	0.02	58	A	0.02	58	A	0.02	58	A	0.02	58	A	0.03	58
44	B	0.02	76	B	0.03	76	B	0.02	76	B	0.02	76	B	0.01	76	B	0.02	76	B	0.02	76	B	0.05	76
45	B	0.02	92	B	0.03	92	B	0.02	92	B	0.02	92	B	0.02	92	B	0.02	92	B	0.01	92	B	0.03	92
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
48	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
49	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
52	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
53	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
56	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
57	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
58	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
59	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
60	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
61	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
62	A	0.33	240	A	0.11	240	A	0.1	240	A	0.11	240	A	0.09	240	A	0.12	240	A	0.06	240	A	0.09	240
63	B	0.02	1000	B	0.02	1000	B	0.02	1000	B	0.02	1000	B	0.02	1000	B	0.04	1000	B	0.04	1000	B	0.06	1000
64	B	0.02	677	B	0.02	677	B	0.01	677	B	0.02	677	B	0.02	677	B	0.03	677	B	0.03	677	B	0.03	677
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
67	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
74	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
79	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
80	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
82	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
83	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
84	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
85	A	0.01	205	A	0.01	205	A	0.01	205	A	0.	205	A	0.02	205	A	0.01	210	A	0.01	210	A	0.02	210
86	B	0.03	882	B	0.04	882	B	0.03	882	B	0.03	882	B	0.03	882	B	0.03	991	B	0.02	991	B	0.03	991
87	B	0.03	1130	B	0.03	1130	B	0.02	1130	B	0.02	1130	B	0.03	1130	B	0.02	1158	B	0.02	1158	B	0.02	1158
88	B	0.05	2427	B	0.06	2427	B	0.05	2427	B	0.04	2427	B	0.03	2427	B	0.05	2607	B	0.04	2607	B	0.05	2607

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
89	B	0.03	2731	B	0.03	2731	B	0.03	2731	B	0.03	2731	B	0.03	2731	B	0.03	2731	B	0.02	2731	B	0.02	2731
90	A	0.03	391	A	0.03	391	A	0.02	391	A	0.03	391	A	0.02	391	A	0.02	396	A	0.02	396	A	0.03	396
91	A	0.02	131	A	0.02	131	A	0.01	131	A	0.02	131	A	0.02	131	A	0.02	136	A	0.01	136	A	0.03	136
92	A	0.02	253	A	0.04	253	A	0.02	253	A	0.02	253	A	0.02	253	A	0.02	256	A	0.02	256	A	0.03	256
93	A	0.03	414	A	0.05	414	A	0.02	414	A	0.02	414	A	0.03	414	A	0.02	416	A	0.02	416	A	0.02	416
94	B	0.02	1266	B	0.03	1266	B	0.02	1266	B	0.02	1266	B	0.03	1266	B	0.02	1266	B	0.02	1266	B	0.02	1266
95	B	0.03	663	B	0.03	663	B	0.03	663	B	0.03	663	B	0.02	663	B	0.03	663	B	0.02	663	B	0.05	663
96	A	0.04	363	A	0.04	363	A	0.03	375	A	0.03	375	A	0.03	375	A	0.04	375	A	0.02	375	A	0.03	375
97	B	0.06	248	B	0.06	248	B	0.04	256	B	0.04	256	B	0.03	256	B	0.05	256	B	0.03	256	B	0.05	256
98	A	0.04	275	A	0.04	275	A	0.03	285	A	0.03	285	A	0.03	283	A	0.03	285	A	0.02	285	A	0.03	285
99	B	0.08	247	B	0.08	247	B	0.06	255	B	0.06	255	B	0.06	255	B	0.07	255	B	0.04	255	B	0.05	255
100	A	0.07	363	A	0.07	363	A	0.05	375	A	0.05	375	A	0.05	375	A	0.06	375	A	0.04	375	A	0.06	375
101	A	0.11	69	A	0.1	69	A	0.08	69	A	0.09	69	A	0.06	69	A	0.1	69	A	0.06	69	A	0.08	69
102	B	0.04	545	B	0.06	545	B	0.04	545	B	0.04	545	B	0.03	545	B	0.05	545	B	0.01	545	B	0.03	545
103	B	0.1	3685	B	0.12	3685	B	0.1	3685	B	0.11	3685	B	0.11	3685	B	0.12	3685	B	0.03	3685	B	0.06	3685
104	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
105	A	0.01	186	A	0.01	186	A	0.	186	A	0.01	186	A	0.02	186	A	0.01	186	A	0.	186	A	0.02	186
106	A	0.	110	A	0.01	110	A	0.01	110	A	0.	110	A	0.	110	A	0.	110	A	0.	110	A	0.	110
107	B	0.02	312	B	0.02	312	B	0.02	312	B	0.02	312	B	0.02	312	B	0.02	312	B	0.	312	B	0.	312
108	A	0.01	167	A	0.02	167	A	0.01	167	A	0.01	167	A	0.02	167	A	0.01	167	A	0.	167	A	0.	167
109	A	0.01	96	A	0.01	96	A	0.01	96	A	0.01	96	A	0.	96	A	0.01	96	A	0.	96	A	0.	96
110	B	0.02	253	B	0.02	253	B	0.02	253	B	0.02	253	B	0.02	253	B	0.02	253	B	0.01	253	B	0.02	253
111	B	0.02	218	B	0.02	218	B	0.02	218	B	0.01	218	B	0.	218	B	0.01	218	B	0.01	218	B	0.	218
112	B	0.02	257	B	0.02	257	B	0.02	257	B	0.02	257	B	0.02	257	B	0.02	257	B	0.01	257	B	0.02	257
113	A	0.03	421	A	0.02	421	A	0.02	421	A	0.02	421	A	0.02	421	A	0.02	421	A	0.01	421	A	0.	421
114	B	0.07	3961	B	0.06	3961	B	0.04	3961	B	0.04	3961	B	0.05	3961	B	0.05	3961	B	0.03	3961	B	0.05	3961
115	B	0.17	2336	B	0.15	2336	B	0.1	2336	B	0.1	2336	B	0.09	2336	B	0.13	2336	B	0.08	2336	B	0.12	2336
116	B	0.07	1415	B	0.09	1415	B	0.05	1415	B	0.06	1415	B	0.06	1415	B	0.06	1415	B	0.04	1415	B	0.08	1415

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
117	A	0.02	125	A	0.02	125	A	0.01	125	A	0.01	125	A	0.01	125	A	0.02	125	A	0.02	125	A	0.02	125
118	A	0.23	433	A	0.24	433	A	0.2	433	A	0.18	433	A	0.17	433	A	0.21	433	A	0.13	433	A	0.2	433
119	A	0.	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50
120	A	0.06	225	A	0.05	225	A	0.04	225	A	0.05	225	A	0.05	225	A	0.05	225	A	0.03	225	A	0.05	225
121	A	0.01	67	A	0.01	67	A	0.01	67	A	0.01	67	A	0.	67	A	0.01	67	A	0.01	67	A	0.02	67
122	A	0.	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50
123	A	0.04	285	A	0.05	285	A	0.03	285	A	0.03	285	A	0.03	285	A	0.04	285	A	0.02	285	A	0.05	285
124	A	0.02	188	A	0.01	188	A	0.01	188	A	0.01	188	A	0.	188	A	0.01	188	A	0.01	188	A	0.02	188
125	A	0.01	50	A	0.01	50	A	0.	50	A	0.01	50	A	0.	50	A	0.01	50	A	0.	50	A	0.02	50
126	B	0.04	523	B	0.05	523	B	0.04	523	B	0.04	523	B	0.03	523	B	0.04	523	B	0.03	523	B	0.05	523
127	A	0.04	441	A	0.05	441	A	0.04	441	A	0.03	441	A	0.03	441	B	0.04	441	B	0.03	441	B	0.05	441
128	B	0.06	1261	B	0.05	1230	B	0.04	1230	B	0.04	1230	B	0.03	1230	B	0.05	1230	B	0.03	1230	B	0.06	1230
129	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.02	260	A	0.03	260
130	A	0.05	210	A	0.06	210	A	0.04	210	A	0.04	210	A	0.04	210	A	0.05	210	A	0.03	210	A	0.05	210
131	A	0.05	343	A	0.06	343	A	0.05	343	A	0.05	343	A	0.05	343	A	0.06	343	A	0.04	343	A	0.05	343
132	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.02	63
133	A	0.01	99	A	0.02	99	A	0.01	99	A	0.01	99	A	0.01	99	A	0.01	99	A	0.01	99	A	0.02	99
134	B	0.04	870	B	0.05	870	B	0.04	870	B	0.04	870	B	0.03	870	B	0.05	870	B	0.03	870	B	0.06	870
135	B	0.05	383	B	0.06	383	B	0.04	383	B	0.04	383	B	0.04	383	B	0.05	383	B	0.04	383	B	0.05	383
136	A	0.05	331	A	0.06	331	A	0.04	331	A	0.04	331	A	0.05	331	A	0.05	331	A	0.03	331	A	0.03	331
137	A	0.04	508	A	0.05	508	A	0.04	508	A	0.04	508	A	0.03	508	A	0.05	508	A	0.03	508	A	0.05	508
138	B	0.05	635	B	0.06	635	B	0.04	635	B	0.04	635	B	0.04	635	B	0.06	635	B	0.03	635	B	0.05	635
139	A	0.01	63	A	0.02	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.02	63
140	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
141	A	0.01	64	A	0.01	64	A	0.	64	A	0.	64	A	0.01	64	A	0.01	64	A	0.	64	A	0.02	64
142	A	0.02	425	A	0.02	425	A	0.01	425	A	0.02	425	A	0.01	425	A	0.02	425	A	0.01	425	A	0.02	425
143	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.02	131
144	B	0.04	347	B	0.05	347	B	0.04	347	B	0.04	347	B	0.04	347	B	0.04	347	B	0.02	347	B	0.05	347

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
145	C	0.16	1759	C	0.15	1759	C	0.12	1759	C	0.12	1759	C	0.11	1759	C	0.13	1759	C	0.08	1759	C	0.14	1759
146	A	0.01	294	A	0.01	294	A	0.01	294	A	0.01	294	A	0.01	294	A	0.01	294	A	0.01	294	A	0.02	294
147	B	0.05	438	B	0.05	438	B	0.04	438	B	0.04	438	B	0.05	438	B	0.05	438	B	0.04	438	B	0.05	438
148	B	0.05	601	B	0.05	601	B	0.04	601	B	0.04	601	B	0.04	601	B	0.04	601	B	0.03	601	B	0.03	601
149	B	0.23	11686	B	0.2	11688	B	0.14	11806	B	0.14	11808	B	0.14	11808	B	0.15	11808	B	0.11	11808	B	0.17	11808
150	B	0.02	1559	B	0.02	1559	B	0.01	1559	B	0.01	1559	B	0.01	1559	B	0.01	1559	B	0.01	1559	B	0.02	1559
151	B	0.05	1529	B	0.05	1529	B	0.03	1529	B	0.03	1529	B	0.03	1529	B	0.03	1529	B	0.02	1529	B	0.03	1529
152	B	0.01	349	B	0.02	349	B	0.01	349	B	0.01	349	B	0.	349	B	0.01	349	B	0.01	349	B	0.	349
153	A	0.02	327	A	0.03	327	A	0.02	327	A	0.02	327	A	0.02	327	A	0.02	327	A	0.01	327	A	0.03	327
154	B	0.04	788	B	0.04	788	B	0.02	788	B	0.02	788	B	0.02	788	B	0.03	788	B	0.02	788	B	0.02	788
155	B	0.04	1817	B	0.04	1817	B	0.03	1817	B	0.02	1817	B	0.03	1817	B	0.03	1817	B	0.02	1817	B	0.03	1817
156	B	0.03	2123	B	0.03	2123	B	0.02	2123	B	0.02	2123	B	0.02	2123	B	0.04	2123	B	0.02	2123	B	0.05	2123
157	B	0.04	2807	B	0.05	2807	B	0.03	2807	B	0.03	2807	B	0.04	2807	B	0.05	2807	B	0.03	2807	B	0.06	2807
158	B	0.06	5459	B	0.06	5459	B	0.05	5459	B	0.05	5459	B	0.05	5459	B	0.06	5459	B	0.04	5459	B	0.06	5459
159	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
160	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
161	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
162	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
163	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
164	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
165	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
166	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
167	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
168	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
169	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
170	C	0.04	108	C	0.05	108	C	0.03	108	C	0.03	108	C	0.03	108	C	0.05	108	C	0.02	108	C	0.05	108
171	C	0.04	103	C	0.05	103	C	0.03	103	C	0.04	103	C	0.04	103	C	0.04	103	C	0.03	103	C	0.05	103
172	C	0.04	123	C	0.04	123	C	0.03	123	C	0.03	123	C	0.04	123	C	0.04	123	C	0.02	123	C	0.03	123

2.29 $1_Algebraic_functions\backslash 1.2Trinomialproducts\backslash 1.2.1Quadratic\backslash 1.2.1.5(a+bx+cx^2)^p(d+ex+fx^2)^q$

Table 31: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	136	A	0.02	136	A	0.01	136	A	0.22	136	A	0.01	136	A	0.01	136	A	0.01	136	A	0.02	136
2	B	0.07	491	B	0.06	491	B	0.04	491	B	0.11	491	B	0.04	491	B	0.04	491	B	0.03	491	B	0.05	491
3	A	0.01	27	A	0.01	27	A	0.01	27	A	0.02	27	A	0.02	27	A	0.01	27	A	0.01	27	A	0.02	27
4	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45
5	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35
6	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25
7	A	0.01	34	A	0.01	37	A	0.01	37	A	0.02	37	A	0.	37	A	0.01	37	A	0.	37	A	0.	37
8	A	0.01	51	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.	53
9	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34
10	A	0.01	51	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.	53	A	0.02	53
11	B	0.15	2065	B	0.15	2065	B	0.14	2065	B	0.19	2065	B	0.14	2065	B	0.15	2065	F	0	0	F	0	0
12	A	0.06	204	A	0.06	204	A	0.06	204	A	0.05	204	A	0.06	204	A	0.07	204	A	0.05	204	A	0.08	204
13	A	0.01	136	A	0.01	136	A	0.01	136	A	0.01	136	A	0.01	136	A	0.01	136	A	0.01	136	A	0.	136
14	A	0.02	79	A	0.02	79	A	0.02	79	A	0.01	79	A	0.01	79	A	0.02	79	A	0.01	79	A	0.02	79
15	A	0.05	214	A	0.05	214	A	0.04	214	A	0.04	214	A	0.05	214	A	0.06	214	A	0.04	214	A	0.08	214
16	A	0.01	30	A	0.01	30	A	0.	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.	30
17	B	0.37	18877	B	0.4	15225	B	0.35	15225	B	0.38	15225	B	0.38	15225	B	0.42	15225	B	0.3	15225	B	0.62	15225
18	B	0.03	1429	B	0.03	1429	B	0.02	1429	B	0.11	1429	B	0.02	1429	B	0.03	1429	B	0.02	1429	B	0.03	1429
19	B	0.11	6019	B	0.1	6019	B	0.07	6019	B	0.06	6019	B	0.07	6019	B	0.07	6019	B	0.05	6014	B	0.09	6014
20	B	0.01	862	B	0.02	862	B	0.01	862	B	0.01	862	B	0.01	862	B	0.01	862	B	0.01	862	B	0.02	862
21	B	0.18	178044	B	0.2	178044	B	0.16	178044	B	0.14	178044	B	0.17	178044	B	0.17	178044	B	0.12	177920	B	0.23	177920
22	B	0.04	761	B	0.05	761	B	0.03	761	B	0.03	761	B	0.04	761	B	0.04	761	B	0.02	762	B	0.03	762
23	B	0.02	1011	B	0.02	1011	B	0.02	1011	B	0.02	1011	B	0.02	1011	B	0.02	1011	B	0.02	1011	B	0.02	1011
24	B	0.02	1786	B	0.02	1786	B	0.02	1786	B	0.03	1786	B	0.02	1786	B	0.02	1786	B	0.02	1786	B	0.02	1786
25	A	0.65	420	A	0.2	420	A	0.14	420	A	0.36	420	A	0.14	420	A	0.15	418	A	0.11	420	A	0.16	418

2.30 $1_Algebraic_functions\backslash 1.2Trinomialproducts\backslash 1.2.1Quadratic\backslash 1.2.1.6(g+hx)^m(a+bx+cx^2)^p(d+ex+fx^2)^q$

Table 32: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.01	373	A	0.02	373	A	0.02	373	A	0.01	373	A	0.	373	A	0.01	373	A	0.	373	A	0.	373
2	B	0.09	714	B	0.08	714	B	0.05	714	B	0.05	714	B	0.03	714	B	0.05	714	B	0.04	736	B	0.06	736
3	B	0.04	2758	B	0.05	2758	B	0.03	2758	B	0.03	2758	B	0.04	2758	B	0.05	2758	B	0.02	2832	B	0.05	2832
4	B	0.02	1672	B	0.02	1672	B	0.02	1672	B	0.01	1672	B	0.01	1672	B	0.02	1672	B	0.01	1672	B	0.02	1672
5	B	0.03	16209	B	0.04	16209	B	0.03	16209	B	0.03	16209	B	0.03	16209	B	0.03	16209	B	0.02	16194	B	0.05	16194
6	B	0.1	2269	B	0.09	2269	B	0.06	2293	B	0.06	2293	B	0.07	2293	B	0.07	2293	B	0.05	2280	B	0.08	2280
7	A	0.06	186	A	0.06	186	A	0.05	186	A	0.05	186	A	0.05	186	A	0.05	186	A	0.04	186	A	0.06	186
8	B	0.03	878	B	0.04	878	B	0.03	878	B	0.02	878	B	0.03	878	B	0.03	878	B	0.02	878	B	0.03	878
9	A	0.01	14	A	0.01	14	A	0.01	14	A	0.01	14	A	0.02	14	A	0.01	14	A	0.01	14	A	0.02	14
10	B	0.02	94	B	0.02	94	B	0.02	94	B	0.02	94	B	0.	94	B	0.02	94	B	0.01	94	B	0.02	94
11	C	0.02	65	C	0.02	65	C	0.01	65	C	0.03	65	C	0.01	65	C	0.02	65	C	0.01	65	C	0.03	65
12	B	0.09	9728	B	0.08	9728	B	0.06	9728	B	0.05	9728	B	0.06	9728	B	0.06	9728	B	0.04	9702	B	0.08	9702
13	B	0.05	9912	B	0.04	9912	B	0.04	9912	B	0.03	9912	B	0.03	9912	B	0.05	9912	B	0.02	9885	B	0.03	9885
14	B	0.03	10298	B	0.04	10298	B	0.03	10298	B	0.03	10298	B	0.03	10298	B	0.04	10298	B	0.02	10271	B	0.03	10271
15	B	0.04	911	B	0.05	911	B	0.04	911	B	0.03	911	B	0.02	911	B	0.05	911	B	0.03	909	B	0.03	909
16	B	0.04	3000	B	0.05	3000	B	0.03	3000	B	0.03	3000	B	0.03	3000	B	0.04	3000	B	0.02	2992	B	0.05	2992
17	B	0.05	1953	B	0.05	1953	B	0.04	1953	B	0.03	1953	B	0.03	1953	B	0.04	1953	B	0.03	2000	B	0.05	2000
18	B	0.04	4567	B	0.04	4567	B	0.03	4567	B	0.03	4567	B	0.03	4567	B	0.04	4567	B	0.02	4691	B	0.03	4691
19	B	0.02	4574	B	0.03	4574	B	0.02	4574	B	0.02	4574	B	0.02	4574	B	0.02	4574	B	0.02	4698	B	0.03	4698
20	B	0.02	358	B	0.02	358	B	0.02	358	B	0.02	358	B	0.02	358	B	0.02	358	B	0.01	369	B	0.02	369
21	B	0.03	1480	B	0.03	1480	B	0.02	1480	B	0.02	1480	B	0.03	1480	B	0.02	1480	B	0.02	1517	B	0.03	1517
22	B	0.03	1656	B	0.03	1656	B	0.02	1656	B	0.02	1656	B	0.02	1656	B	0.03	1656	B	0.02	1693	B	0.02	1693
23	B	0.03	6460	B	0.03	6460	B	0.03	6460	B	0.02	6460	B	0.03	6460	B	0.03	6460	B	0.02	6458	B	0.02	6458
24	B	0.03	6765	B	0.04	6765	B	0.03	6765	B	0.02	6765	B	0.03	6765	B	0.03	6765	B	0.02	6761	B	0.05	6761
25	B	0.03	3131	B	0.04	3131	B	0.03	3131	B	0.03	3131	B	0.03	3131	B	0.03	3131	B	0.02	3130	B	0.05	3130

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Table 32 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
26	B	0.03	2321	B	0.03	2321	B	0.02	2321	B	0.02	2321	B	0.02	2321	B	0.03	2321	B	0.02	2319	B	0.03	2319
27	B	0.03	859	B	0.03	859	B	0.02	859	B	0.02	859	B	0.02	859	B	0.03	859	B	0.02	859	B	0.03	859
28	A	0.03	159	A	0.03	159	A	0.02	159	A	0.02	159	A	0.02	159	A	0.03	159	A	0.02	159	A	0.03	159
29	A	0.	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14

2.31 $1_Algebraic_functions\backslash 1.2Trinomialproducts\backslash 1.2.1Quadratic\backslash 1.2.1.9(d+ex)^mPq(x)(a+bx+cx^2)^p$

Table 33: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	304	A	0.02	304	A	0.01	304	A	0.02	304	A	0.01	304	A	0.02	304	A	0.01	304	A	0.03	304
2	A	0.01	154	A	0.01	154	A	0.01	154	A	0.01	154	A	0.02	154	A	0.01	154	A	0.	154	A	0.	154
3	B	0.02	439	B	0.03	439	B	0.02	439	B	0.02	439	B	0.02	439	B	0.02	439	B	0.01	439	B	0.02	439
4	A	0.01	116	A	0.02	116	A	0.01	116	A	0.01	116	A	0.02	116	A	0.02	116	A	0.01	116	A	0.02	116
5	A	0.02	301	A	0.02	301	A	0.01	301	A	0.02	301	A	0.01	301	A	0.02	301	A	0.01	301	A	0.	301
6	A	0.	268	A	0.	268	A	0.	268	A	0.	268	A	0.	268	A	0.	268	A	0.	268	A	0.	268
7	A	0.	151	A	0.	151	A	0.	151	A	0.	151	A	0.	151	A	0.	151	A	0.	151	A	0.02	151
8	A	0.01	490	A	0.01	490	A	0.01	490	A	0.01	490	A	0.02	490	A	0.01	490	A	0.	490	A	0.	490
9	A	0.	553	A	0.	553	A	0.	553	A	0.	553	A	0.	553	A	0.	553	A	0.	553	A	0.02	553
10	A	0.	111	A	0.	111	A	0.	111	A	0.	111	A	0.	111	A	0.	111	A	0.	111	A	0.	111
11	A	0.01	880	A	0.01	880	A	0.01	880	A	0.01	880	A	0.	880	A	0.01	880	A	0.	880	A	0.02	880
12	A	0.01	399	A	0.02	399	A	0.01	399	A	0.01	399	A	0.02	399	A	0.01	399	A	0.	399	A	0.02	399
13	B	0.02	462	B	0.02	462	B	0.01	462	B	0.01	462	B	0.02	462	B	0.02	462	B	0.01	462	B	0.	462
14	B	0.04	1046	B	0.03	1020	B	0.03	1020	B	0.02	1020	B	0.02	1020	B	0.03	1020	B	0.01	1020	B	0.02	1020
15	A	0.01	96	A	0.01	127	A	0.01	127	A	0.01	127	A	0.	127	A	0.01	127	A	0.	127	A	0.	127
16	B	0.05	2179	B	0.04	1783	B	0.04	1783	B	0.03	1783	B	0.03	1783	B	0.04	1783	B	0.02	1783	B	0.03	1783
17	B	0.02	647	B	0.02	1001	B	0.02	1001	B	0.01	1001	B	0.02	1001	B	0.02	1001	B	0.01	1001	B	0.02	1001

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Table 33 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
18	A	0.02	661	A	0.02	661	A	0.01	661	A	0.02	661	A	0.02	661	A	0.02	661	A	0.01	661	A	0.02	661
19	A	0.01	230	A	0.01	230	A	0.01	230	A	0.01	230	A	0.02	230	A	0.01	230	A	0.01	230	A	0.02	230
20	A	0.01	111	A	0.01	111	A	0.01	111	A	0.	111	A	0.02	111	A	0.01	111	A	0.	111	A	0.02	111
21	B	0.07	7237	B	0.07	7237	B	0.04	7237	B	0.04	7237	B	0.05	7237	B	0.05	7237	B	0.04	7237	B	0.05	7237
22	B	0.1	17026	B	0.11	17026	B	0.07	17026	B	0.06	17026	B	0.07	17026	B	0.07	17026	B	0.06	17026	B	0.09	17026
23	B	0.02	516	B	0.02	516	B	0.01	516	B	0.02	516	B	0.01	516	B	0.02	516	B	0.01	516	B	0.02	516
24	B	0.03	1663	B	0.04	1663	B	0.02	1663	B	0.02	1663	B	0.03	1663	B	0.03	1663	B	0.02	1663	B	0.03	1663
25	B	0.03	2584	B	0.04	2584	B	0.03	2584	B	0.02	2584	B	0.03	2584	B	0.03	2584	B	0.02	2584	B	0.03	2584
26	A	0.01	51	A	0.01	51	A	0.01	51	A	0.01	51	A	0.	51	A	0.01	51	A	0.01	51	A	0.02	51
27	A	0.03	140	A	0.03	140	A	0.02	140	A	0.02	140	A	0.02	140	A	0.03	140	A	0.02	140	A	0.03	140
28	A	0.	90	A	0.	90	A	0.	90	A	0.	90	A	0.	90	A	0.	90	A	0.	90	A	0.	90
29	B	0.01	1028	B	0.02	1028	B	0.01	1028	B	0.01	1028	B	0.02	1028	B	0.01	1028	B	0.01	1028	B	0.02	1028
30	B	0.02	1125	B	0.02	1125	B	0.02	1125	B	0.01	1125	B	0.02	1125	B	0.02	1125	B	0.01	1125	B	0.02	1125
31	B	0.05	6365	B	0.04	3131	B	0.03	3131	B	0.03	3131	B	0.03	3131	B	0.04	3131	B	0.02	3131	B	0.03	3131
32	A	0.01	53	A	0.01	52	A	0.01	52	A	0.01	52	A	0.	52	A	0.01	52	A	0.	52	A	0.	52
33	A	0.01	45	A	0.01	46	A	0.	46	A	0.01	46	A	0.02	46	A	0.01	46	A	0.	46	A	0.	46
34	A	0.01	34	A	0.01	33	A	0.	33	A	0.01	33	A	0.	33	A	0.01	33	A	0.	33	A	0.02	33
35	A	0.01	60	A	0.02	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.02	58
36	A	0.01	11	A	0.01	11	A	0.	11	A	0.	11	A	0.02	11	A	0.01	11	A	0.	11	A	0.02	11
37	A	0.01	17	A	0.01	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
38	B	0.08	19321	B	0.08	19321	B	0.05	19321	B	0.05	19321	B	0.05	19321	B	0.06	19321	B	0.04	19321	B	0.05	19321
39	B	0.09	40336	B	0.1	40336	B	0.07	40336	B	0.06	40336	B	0.07	40336	B	0.07	40336	B	0.06	40336	B	0.08	40336
40	B	0.11	57957	B	0.12	57957	B	0.09	57957	B	0.08	57957	B	0.08	57957	B	0.11	57957	B	0.08	57957	B	0.11	57957
41	A	0.02	98	A	0.02	98	A	0.02	98	A	0.02	98	A	0.02	98	A	0.03	98	A	0.02	98	A	0.03	98
42	A	0.02	117	A	0.02	117	A	0.02	117	A	0.02	117	A	0.02	117	A	0.02	117	A	0.01	117	A	0.02	117
43	A	0.02	162	A	0.03	162	A	0.02	162	A	0.02	162	A	0.02	162	A	0.02	162	A	0.02	162	A	0.03	162
44	A	0.02	136	A	0.02	136	A	0.02	136	A	0.02	136	A	0.02	136	A	0.03	136	A	0.01	136	A	0.03	136
45	A	0.01	119	A	0.01	119	A	0.01	119	A	0.01	119	A	0.	119	A	0.01	119	A	0.01	119	A	0.	119

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Table 33 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
46	A	0.03	199	A	0.03	199	A	0.02	199	A	0.02	199	A	0.03	199	A	0.03	199	A	0.02	199	A	0.02	199
47	A	0.01	169	A	0.01	169	A	0.01	169	A	0.01	169	A	0.02	169	A	0.01	169	A	0.01	169	A	0.02	169
48	B	0.02	555	B	0.02	555	B	0.02	555	B	0.01	555	B	0.02	555	B	0.02	555	B	0.01	555	B	0.02	555
49	A	0.01	185	A	0.01	185	A	0.01	185	A	0.01	185	A	0.01	185	A	0.01	185	A	0.01	185	A	0.	185
50	B	0.02	599	B	0.03	599	B	0.02	599	B	0.02	599	B	0.02	599	B	0.02	599	B	0.01	599	B	0.03	599
51	B	0.02	1671	B	0.03	1671	B	0.02	1671	B	0.02	1671	B	0.02	1671	B	0.02	1671	B	0.01	1671	B	0.02	1671
52	B	0.04	4930	B	0.04	4930	B	0.03	4930	B	0.03	4930	B	0.03	4930	B	0.04	4930	B	0.02	4930	B	0.03	4930
53	B	0.04	9126	B	0.05	9126	B	0.03	9126	B	0.03	9126	B	0.04	9126	B	0.04	9126	B	0.03	9126	B	0.03	9126
54	B	0.01	158	B	0.02	158	B	0.01	158	B	0.01	158	B	0.01	158	B	0.02	158	B	0.01	158	B	0.02	158
55	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.01	36	A	0.02	36
56	B	0.02	532	B	0.02	532	B	0.01	532	B	0.02	532	B	0.02	532	B	0.02	532	B	0.01	532	B	0.02	532
57	A	0.01	286	A	0.01	286	A	0.01	286	A	0.01	286	A	0.	286	A	0.	286	A	0.	286	A	0.02	286
58	A	0.	108	A	0.	108	A	0.	108	A	0.	108	A	0.	108	A	0.	108	A	0.	108	A	0.02	108
59	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45
60	A	0.01	465	A	0.01	465	A	0.01	465	A	0.01	465	A	0.02	465	A	0.	465	A	0.	465	A	0.02	465
61	A	0.02	531	A	0.02	531	A	0.01	531	A	0.01	531	A	0.01	531	A	0.01	531	A	0.01	531	A	0.	531
62	A	0.01	44	A	0.01	44	A	0.01	44	A	0.01	44	A	0.02	44	A	0.	44	A	0.	44	A	0.	44
63	A	0.02	298	A	0.02	298	A	0.02	298	A	0.02	298	A	0.02	298	A	0.02	298	A	0.01	298	A	0.	298
64	A	0.01	106	A	0.02	108	A	0.01	108	A	0.01	108	A	0.	108	A	0.01	108	A	0.	108	A	0.02	108
65	B	0.04	986	B	0.03	963	B	0.03	963	B	0.02	963	B	0.01	963	B	0.03	963	B	0.02	963	B	0.02	963
66	A	0.02	102	A	0.02	172	A	0.01	172	A	0.01	172	A	0.02	172	A	0.01	172	A	0.01	172	A	0.02	172
67	A	0.03	165	A	0.03	165	A	0.03	165	A	0.03	165	A	0.03	165	A	0.03	165	A	0.02	165	A	0.03	165
68	A	0.05	216	A	0.05	216	A	0.04	216	A	0.04	216	A	0.05	216	A	0.06	216	A	0.04	216	A	0.05	216
69	A	0.04	204	A	0.04	204	A	0.03	204	A	0.03	204	A	0.03	204	A	0.04	204	A	0.02	204	A	0.03	204
70	A	0.03	246	A	0.04	246	A	0.03	246	A	0.03	246	A	0.03	246	A	0.03	246	A	0.02	246	A	0.03	246
71	A	0.03	116	A	0.04	116	A	0.03	116	A	0.03	116	A	0.03	116	A	0.03	116	A	0.02	116	A	0.03	116
72	B	0.04	3222	B	0.04	3222	B	0.03	3222	B	0.03	3222	B	0.03	3222	B	0.16	3222	B	0.12	3222	B	0.31	3222
73	B	0.02	1960	B	0.02	1960	B	0.01	1960	B	0.02	1960	B	0.01	1960	B	0.02	1960	B	0.01	1960	B	0.02	1960

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Table 33 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
74	B	0.11	2342	B	0.1	2342	B	0.09	2342	B	0.08	2342	B	0.09	2342	B	0.1	2342	B	0.06	2342	B	0.11	2342
75	A	0.02	98	A	0.02	98	A	0.02	98	A	0.01	98	A	0.02	98	A	0.02	98	A	0.01	98	A	0.02	98
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.32 $1_Algebraic_functions\backslash 1.2Trinomialproducts\backslash 1.2.2Quartic\backslash 1.2.2.2(dx)^m(a+bx^2+cx^4)^p$

Table 34: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
2	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
3	A	0.01	12	A	0.01	12	A	0.01	12	A	0.01	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12
4	A	0.01	14	A	0.01	14	A	0.01	14	A	0.01	14	A	0.02	14	A	0.	14	A	0.	14	A	0.	14
5	A	0.01	14	A	0.01	14	A	0.	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
6	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
7	A	0.01	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.02	25	A	0.	25	A	0.02	25
8	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.	34	A	0.	34
9	A	0.	60	A	0.01	60	A	0.	60	A	0.	60	A	0.	60	A	0.	60	A	0.	60	A	0.	60
10	A	0.	27	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
11	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
12	A	0.	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16
13	A	0.02	46	A	0.02	46	A	0.02	46	A	0.02	46	A	0.02	46	A	0.01	46	A	0.01	46	A	0.	46
14	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
15	A	0.02	66	A	0.02	62	A	0.02	62	A	0.02	62	A	0.01	62	A	0.02	62	A	0.01	62	A	0.	62
16	A	0.02	62	A	0.02	62	A	0.02	62	A	0.02	62	A	0.02	62	A	0.01	62	A	0.01	62	A	0.02	62
17	A	0.02	79	A	0.02	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.01	77	A	0.02	77

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Table 34 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
18	A 0.01 39	A 0.01 39	A 0.01 39	A 0.01 39	A 0.02 39	A 0.01 39	A 0. 39	A 0. 39
19	A 0.01 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0. 61	A 0.01 61	A 0. 61	A 0. 61
20	A 0.01 50	A 0.01 50	A 0.01 50	A 0. 50	A 0.02 50	A 0.01 50	A 0.01 50	A 0.02 50
21	A 0.01 65	A 0.01 65	A 0.01 65	A 0.01 65	A 0. 65	A 0.01 63	A 0. 65	A 0.02 63
22	A 0.01 106	A 0.01 106	A 0.01 106	A 0.01 106	A 0.02 106	A 0.01 106	A 0.01 106	A 0.02 106
23	A 0.01 84	A 0.01 84	A 0. 84	A 0.01 84	A 0. 84	A 0.01 84	A 0. 84	A 0.02 84
24	A 0.01 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0.02 50	A 0.01 50	A 0.01 50	A 0.02 50
25	A 0. 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
26	A 0.01 186	A 0.01 186	A 0.01 186	A 0.04 186	A 0.01 186	A 0.05 186	A 0.04 186	A 0.02 186
27	A 0. 44	A 0.01 44	A 0. 44	A 0.01 44	A 0. 44	A 0.01 44	A 0. 44	A 0. 44
28	A 0.01 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0.02 61	A 0.01 61	A 0. 61	A 0.02 61
29	A 0. 28	A 0.01 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
30	A 0.01 37	A 0.01 37	A 0. 37	A 0.01 37	A 0. 37	A 0.02 37	A 0. 37	A 0. 37
31	B 0.01 54	B 0.01 54	B 0.01 54	B 0.01 54	B 0. 54	B 0.02 54	B 0.01 54	B 0.02 54
32	A 0.01 64	A 0.01 64	A 0.01 64	A 0.01 64	A 0.02 64	A 0.01 64	A 0.01 64	A 0.02 64
33	A 0. 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
34	A 0. 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
35	A 0. 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
36	A 0. 16	A 0.01 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
37	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.02 27
38	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.01 27	A 0.01 27	A 0.02 27
39	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27
40	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0.01 27	A 0. 27	A 0. 27
41	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.01 27	A 0.01 27	A 0.02 27
42	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0. 38
43	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0. 38	A 0.01 38	A 0.01 38	A 0.02 38
44	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.01 38	A 0.01 38	A 0. 38
45	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.02 38	A 0. 38	A 0.01 38	A 0.02 38

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Table 34 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
46	A 0.02 152	A 0.03 152	A 0.02 152	A 0.02 152	A 0.02 152	A 0.02 152	A 0.01 152	A 0.02 152
47	A 0.02 158	A 0.03 158	A 0.02 158	A 0.02 158	A 0.02 158	A 0.02 158	A 0.01 158	A 0.02 158
48	A 0.02 158	A 0.02 158	A 0.01 158	A 0.01 158	A 0.02 158	A 0. 158	A 0.01 158	A 0. 158
49	A 0.01 158	A 0.02 158	A 0.01 158	A 0.01 158	A 0.02 158	A 0.02 158	A 0.01 158	A 0. 158
50	A 0.02 161	A 0.03 161	A 0.02 161	A 0.02 161	A 0.03 161	A 0.02 161	A 0.01 161	A 0.02 161
51	A 0.02 161	A 0.02 167	A 0.02 167	A 0.02 167	A 0.01 167	A 0.02 167	A 0.01 167	A 0.02 167
52	A 0.03 178	A 0.03 176	A 0.02 176	A 0.02 176	A 0.02 176	A 0.02 176	A 0.01 176	A 0.02 176
53	A 0.02 157	A 0.02 157	A 0.02 157	A 0.04 157	A 0.01 157	A 0.05 157	A 0.03 157	A 0.03 157
54	A 0.04 213	A 0.04 213	A 0.03 213	A 0.03 213	A 0.03 213	A 0.03 213	A 0.02 213	A 0.03 214
55	A 0.02 157	A 0.02 157	A 0.02 157	A 0.03 157	A 0.02 157	A 0.03 157	A 0.02 157	A 0.02 157
56	A 0.02 130	A 0.03 130	A 0.02 130	A 0.04 130	A 0.02 130	A 0.05 130	A 0.04 130	A 0.02 130
57	A 0.02 239	A 0.03 239	A 0.02 239	A 0.06 239	A 0.02 239	A 0.07 239	A 0.04 239	A 0.03 239
58	A 0.07 167	A 0.08 167	A 0.06 167	A 0.06 167	A 0.06 167	A 0.07 167	A 0.05 167	A 0.06 167
59	A 0.02 206	A 0.02 206	A 0.02 206	A 0.03 206	A 0.01 206	A 0.03 206	A 0.02 206	A 0.03 206
60	A 0.02 131	A 0.02 131	A 0.02 131	A 0.01 131	A 0.02 131	A 0.02 131	A 0.01 131	A 0.02 130
61	A 0.02 106	A 0.03 106	A 0.02 106	A 0.03 106	A 0.02 106	A 0.04 106	A 0.02 106	A 0.02 106
62	A 0.03 215	A 0.03 215	A 0.02 215	A 0.03 215	A 0.01 215	A 0.04 215	A 0.03 215	A 0.02 215
63	A 0.05 213	A 0.06 213	A 0.04 213	A 0.04 213	A 0.05 213	A 0.05 213	A 0.03 213	A 0.05 213
64	A 0.03 222	A 0.04 222	A 0.02 222	A 0.02 222	A 0.03 222	A 0.03 222	A 0.02 222	A 0.02 222
65	A 0.03 141	A 0.04 141	A 0.02 141	A 0.06 141	A 0.03 141	A 0.08 141	A 0.04 141	A 0.02 141
66	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
67	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
68	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
69	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0.02 45
70	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0. 45
71	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.02 47	A 0. 47	A 0. 47
72	B 0. 68	B 0. 68	B 0. 68	B 0. 68	B 0. 68	B 0. 68	B 0. 68	B 0. 68
73	B 0. 69	B 0. 69	B 0. 69	B 0. 69	B 0. 69	B 0. 69	B 0. 69	B 0. 69

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Table 34 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
74	A	0.01	69	A	0.01	69	A	0.01	69	A	0.01	69	A	0.02	69	A	0.02	69	A	0.	69	A	0.	69
75	A	0.01	74	A	0.02	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.	74	A	0.	74	A	0.	74
76	A	0.01	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
77	A	0.02	64	A	0.02	64	A	0.01	64	A	0.01	64	A	0.01	64	A	0.	64	A	0.	64	A	0.02	64
78	A	0.01	58	A	0.02	70	A	0.01	70	A	0.01	70	A	0.	70	A	0.02	70	A	0.	70	A	0.	70
79	A	0.02	86	A	0.03	78	A	0.02	78	A	0.02	78	A	0.02	78	A	0.02	78	A	0.01	78	A	0.	78
80	A	0.01	31	A	0.02	31	A	0.01	31	A	0.01	31	A	0.	31	A	0.02	31	A	0.	31	A	0.	31
81	A	0.02	80	A	0.02	109	A	0.01	109	A	0.01	109	A	0.02	109	A	0.	109	A	0.	109	A	0.	109
82	A	0.02	78	A	0.02	109	A	0.01	109	A	0.01	109	A	0.01	109	A	0.02	109	A	0.	109	A	0.	109
83	A	0.03	150	A	0.03	142	A	0.02	142	A	0.02	142	A	0.02	142	A	0.02	142	A	0.01	142	A	0.02	142
84	A	0.01	16	A	0.01	16	A	0.01	16	A	0.01	16	A	0.02	16	A	0.	16	A	0.	16	A	0.	16
85	A	0.	10	A	0.01	10	A	0.01	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
86	A	0.01	19	A	0.01	19	A	0.01	19	A	0.01	19	A	0.02	19	A	0.02	19	A	0.	19	A	0.	19
87	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.02	36	A	0.	36	A	0.02	36
88	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.01	36	A	0.02	36	A	0.	36	A	0.	36
89	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.02	36	A	0.	36	A	0.02	36
90	A	0.01	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.01	58	A	0.02	58
91	A	0.01	58	A	0.02	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.02	58	A	0.01	58	A	0.02	58
92	A	0.01	80	A	0.02	80	A	0.01	80	A	0.01	80	A	0.02	80	A	0.02	80	A	0.01	80	A	0.02	80
93	A	0.01	80	A	0.02	80	A	0.01	80	A	0.01	80	A	0.01	80	A	0.02	80	A	0.01	80	A	0.02	80
94	A	0.01	80	A	0.02	80	A	0.01	80	A	0.01	80	A	0.02	80	A	0.02	80	A	0.01	80	A	0.	80
95	A	0.01	80	A	0.02	80	A	0.01	80	A	0.01	80	A	0.01	80	A	0.02	80	A	0.01	80	A	0.02	80
96	A	0.01	80	A	0.02	80	A	0.01	80	A	0.01	80	A	0.02	80	A	0.	80	A	0.01	80	A	0.02	80
97	A	0.02	50	A	0.02	50	A	0.02	50	A	0.02	50	A	0.02	50	A	0.02	50	A	0.01	50	A	0.02	50
98	A	0.01	133	A	0.02	133	A	0.01	133	A	0.02	133	A	0.02	133	A	0.03	133	A	0.01	133	A	0.02	133
99	A	0.02	139	A	0.02	139	A	0.01	139	A	0.02	139	A	0.02	139	A	0.03	139	A	0.01	139	A	0.02	139
100	A	0.02	172	A	0.03	172	A	0.02	172	A	0.02	172	A	0.02	172	A	0.02	172	A	0.01	172	A	0.02	172
101	A	0.01	169	A	0.02	169	A	0.01	169	A	0.01	169	A	0.02	169	A	0.02	169	A	0.01	169	A	0.02	169

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Table 34 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
102	A	0.01	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.01	30	A	0.01	30	A	0.02	30
103	A	0.01	52	A	0.01	52	A	0.01	52	A	0.01	52	A	0.	52	A	0.02	52	A	0.01	52	A	0.	52
104	A	0.01	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.02	74	A	0.	74	A	0.01	74	A	0.02	74
105	A	0.03	223	A	0.03	223	A	0.02	223	A	0.02	223	A	0.02	223	A	0.02	223	A	0.01	223	A	0.03	223
106	A	0.03	223	A	0.04	223	A	0.02	223	A	0.02	223	A	0.03	223	A	0.01	223	A	0.01	223	A	0.02	223
107	A	0.03	280	C	0.05	376	C	0.04	389	C	0.04	389	C	0.05	389	C	0.1	389	C	0.02	389	C	0.05	389
108	A	0.03	277	C	0.05	378	C	0.03	388	C	0.04	388	C	0.03	388	C	0.03	388	C	0.02	388	C	0.05	388
109	A	0.03	272	C	0.04	129	C	0.03	135	C	0.03	135	C	0.03	135	C	0.03	135	C	0.02	135	C	0.06	135
110	A	0.05	370	C	0.1	698	C	0.08	808	C	0.08	808	C	0.08	808	C	0.09	808	C	0.04	808	C	0.17	808
111	A	0.04	354	C	0.09	674	C	0.08	786	C	0.07	786	C	0.08	786	C	0.09	786	C	0.05	786	C	0.16	786
112	A	0.04	335	C	0.08	645	C	0.06	758	C	0.06	758	C	0.08	758	C	0.08	758	C	0.04	758	C	0.17	758
113	A	0.04	335	C	0.06	317	C	0.05	372	C	0.04	372	C	0.06	372	C	0.06	372	C	0.03	372	C	0.16	372
114	A	0.04	336	C	0.04	193	C	0.03	199	C	0.03	199	C	0.03	199	C	0.05	199	C	0.02	199	C	0.09	199
115	A	0.04	333	C	0.04	193	C	0.03	199	C	0.03	199	C	0.05	199	C	0.03	199	C	0.02	199	C	0.08	199
116	A	0.01	61	A	0.01	61	A	0.01	61	A	0.01	61	A	0.	61	A	0.02	61	A	0.01	61	A	0.	61
117	A	0.01	83	A	0.02	83	A	0.01	83	A	0.01	83	A	0.	83	A	0.	83	A	0.01	83	A	0.	83
118	A	0.02	247	A	0.03	251	A	0.02	250	A	0.02	250	A	0.03	247	A	0.03	251	A	0.01	251	A	0.02	251
119	B	0.03	743	B	0.04	746	B	0.02	743	B	0.02	743	B	0.03	743	B	0.02	746	B	0.01	746	B	0.02	746
120	B	0.03	667	B	0.04	649	A	0.02	646	A	0.02	646	A	0.02	637	B	0.03	649	B	0.01	649	B	0.02	649
121	B	0.04	1144	C	0.08	1457	C	0.04	1747	C	0.04	1747	C	0.07	1747	C	0.06	1752	C	0.03	1752	C	0.11	1752
122	B	0.04	1143	C	0.05	287	C	0.03	336	C	0.03	336	C	0.03	336	C	0.05	336	C	0.02	336	C	0.06	336
123	B	0.04	1193	C	0.08	1428	C	0.05	1763	C	0.05	1763	C	0.07	1763	C	0.08	1768	C	0.03	1768	C	0.09	1768
124	A	0.03	77	A	0.03	77	A	0.02	79	A	0.03	79	F	0	0	F	0	0	F	0	0	F	0	0
125	A	0.	55	A	0.01	55	A	0.	55	A	0.	55	A	0.	55	A	0.02	55	A	0.	55	A	0.	55
126	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
127	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
128	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
129	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 34 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
130	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
131	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
132	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
133	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0.01 18	A 0. 18	A 0. 18
134	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
135	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0. 45	A 0. 45
136	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
137	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0.02 45	A 0. 45	A 0. 45	A 0. 45
138	A 0.01 87	A 0.02 87	A 0.01 87	A 0.01 87	A 0.02 87	A 0. 87	A 0. 87	A 0. 87
139	A 0.02 119	A 0.02 119	A 0.01 119	A 0.01 119	A 0. 119	A 0.02 119	A 0.01 119	A 0. 119
140	A 0.02 116	A 0.04 116	A 0.03 116	A 0.04 116	A 0.03 116	A 0.03 116	A 0.01 116	A 0.02 116
141	B 0.03 368	B 0.05 368	B 0.04 368	B 0.04 368	B 0.04 368	B 0.06 368	B 0.01 368	B 0.02 368
142	B 0.03 569	B 0.04 344	B 0.03 344	B 0.03 344	B 0.02 344	B 0.02 344	B 0.01 344	B 0.02 344
143	B 0.03 267	B 0.03 779	B 0.03 779	B 0.03 779	B 0.02 779	B 0.03 779	B 0.01 779	B 0.02 779
144	B 0.02 270	B 0.03 410	B 0.02 410	B 0.02 410	B 0.03 410	B 0.01 410	B 0.01 410	B 0.02 410
145	A 0.01 142	A 0.02 142	A 0.02 142	A 0.02 142	A 0.02 142	A 0.02 142	A 0.01 142	A 0.02 142
146	A 0.01 141	A 0.02 141	A 0.02 141	A 0.01 141	A 0.02 141	A 0.02 141	A 0.01 141	A 0.02 141
147	B 0.17 4840	B 0.17 6685	B 0.14 6685	B 0.14 6685	B 0.11 6685	B 0.17 6685	B 0.04 6685	B 0.05 6685
148	A 0.01 116	A 0.01 116	A 0. 116	A 0.01 116	A 0.02 116	A 0. 116	A 0.01 116	A 0.02 116
149	A 0. 63	A 0.01 63	A 0. 63	A 0. 63	A 0. 63	A 0. 63	A 0. 63	A 0. 63
150	B 0.04 343	B 0.05 343	B 0.04 343	B 0.04 343	B 0.03 343	B 0.05 343	B 0.01 343	B 0.03 343
151	A 0. 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
152	A 0.01 110	A 0.02 110	A 0.01 110	A 0.01 110	A 0.02 110	A 0. 110	A 0.01 110	A 0.02 110
153	B 0.13 1658	B 0.17 1661	B 0.14 1658	B 0.31 1658	B 0.26 1658	B 0.31 1658	B 0.2 1661	C 0.25 115
154	B 0.06 724	B 0.09 724	B 0.07 724	B 0.07 724	B 0.06 724	B 0.1 724	B 0.03 724	B 0.08 724
155	B 0.07 913	B 0.1 914	B 0.09 913	B 0.09 913	B 0.08 913	B 0.08 914	B 0.03 913	C 0.05 52
156	B 0.01 26	B 0.02 26	B 0.02 26	B 0.02 26	B 0.02 26	B 0.02 26	B 0.01 26	B 0. 26
157	A 0.01 18	A 0.02 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0.02 18	A 0.01 18	A 0.02 18

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Table 34 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
158	A 0.05 379	A 0.04 379	A 0.02 379	A 0.02 379	A 0.02 379	A 0.05 379	A 0.02 379	A 0.03 379
159	A 0.04 202	A 0.05 202	A 0.03 202	A 0.03 202	A 0.03 202	A 0.03 202	A 0.03 202	A 0.05 202
160	B 0.04 337	B 0.05 337	B 0.03 337	B 0.03 337	B 0.05 337	B 0.03 337	B 0.03 337	B 0.03 337
161	B 0.04 457	B 0.06 457	B 0.04 457	B 0.04 457	B 0.05 457	B 0.03 457	B 0.03 457	B 0.05 457
162	A 0.03 450	A 0.04 450	A 0.02 450	A 0.02 450	A 0.03 450	A 0.03 450	A 0.02 450	A 0.03 450
163	A 0.03 162	A 0.04 162	A 0.02 162	A 0.02 162	A 0.02 162	A 0.02 162	A 0.02 162	A 0.03 162
164	A 0.01 35	A 0.02 35	A 0.01 35	A 0.01 35	A 0.02 35	A 0. 35	A 0.01 35	A 0. 35
165	A 0.02 413	A 0.03 413	A 0.02 413	A 0.02 413	A 0.02 413	A 0.03 413	A 0.01 413	A 0.03 413
166	A 0.02 74	A 0.03 74	A 0.02 74	A 0.02 74	A 0.02 74	A 0.02 74	A 0.01 74	A 0.02 74
167	A 0.03 202	A 0.04 202	A 0.02 202	A 0.02 202	A 0.03 202	A 0.02 202	A 0.02 202	A 0.02 202
168	B 0.03 354	B 0.04 354	B 0.02 354	B 0.03 354	B 0.02 354	B 0.03 354	B 0.02 354	B 0.05 354
169	A 0.02 149	A 0.03 149	A 0.02 149	A 0.02 149	A 0.02 149	A 0.03 149	A 0.01 149	A 0.03 149
170	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.02 38	A 0.01 38	A 0.02 38
171	A 0.03 482	A 0.04 482	A 0.02 482	A 0.02 482	A 0.03 482	A 0.02 482	A 0.02 482	A 0.03 482
172	B 0.51 84	B 0.02 84	B 0.01 84	B 0.01 84	B 0.02 84	B 0.02 84	B 0.01 84	B 0. 84
173	B 0.03 50	B 0.01 50	B 0.01 50	B 0.01 50	B 0.02 50	B 0. 50	B 0.01 50	B 0. 50
174	B 0.52 84	B 0.03 84	B 0.01 84	B 0.02 84	B 0.02 84	B 0.02 84	B 0.01 84	B 0.02 84
175	B 0.04 47	B 0.01 47	B 0.01 47	B 0.01 47	B 0. 47	B 0. 47	B 0.01 47	B 0.02 47
176	B 0.51 84	B 0.02 84	B 0.01 84	B 0.01 84	B 0.02 84	B 0.02 84	B 0.01 84	B 0.02 84
177	B 0.02 50	B 0.01 50	B 0.01 50	B 0.01 50	B 0.01 50	B 0.02 50	B 0.01 50	B 0.02 50
178	B 0.54 84	B 0.03 84	B 0.01 84	B 0.01 84	B 0.01 84	B 0.02 84	B 0.01 84	B 0.02 84
179	C 0.02 53	C 0.01 53	C 0.01 53	C 0.01 53	C 0.01 53	C 0. 53	C 0.01 53	C 0.02 53
180	C 0.32 84	C 0.02 84	C 0.01 84	C 0.01 84	C 0. 84	C 0.02 84	C 0.01 84	C 0.02 84
181	C 0.55 84	C 0.05 84	C 0.03 84	C 0.03 84	C 0.03 84	C 0.02 84	C 0.02 84	C 0.03 84
182	C 0.2 84	C 0.02 84	C 0.01 84	C 0.01 84	C 0.02 84	C 0.02 84	C 0.01 84	C 0.02 84
183	C 0.53 84	C 0.02 84	C 0.01 84	C 0.01 84	C 0. 84	C 0.02 84	C 0.01 84	C 0.02 84
184	C 0.42 84	C 0.02 84	C 0.01 84	C 0.01 84	C 0.02 84	C 0. 84	C 0.01 84	C 0.02 84
185	C 0.28 56	C 0.02 56	C 0.01 56	C 0.01 56	C 0. 56	C 0.02 56	C 0.01 56	C 0. 56

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Table 34 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
186	C 0.16 85	C 0.04 85	C 0.02 85	C 0.02 85	C 0.03 85	C 0.02 85	C 0.01 85	C 0.02 85
187	C 0.2 66	C 0.02 66	C 0.01 66	C 0.01 66	C 0.02 66	C 0. 66	C 0.01 66	C 0.02 66
188	C 0.16 87	C 0.04 87	C 0.02 87	C 0.02 87	C 0.02 87	C 0.02 87	C 0.01 87	C 0.02 87
189	C 0.18 66	C 0.01 66	C 0.01 66	C 0.01 66	C 0.02 66	C 0.02 66	C 0. 66	C 0.02 66
190	C 0.15 87	C 0.04 87	C 0.01 87	C 0.01 87	C 0.02 87	C 0.02 87	C 0.01 87	C 0.03 87
191	C 0.16 87	C 0.04 87	C 0.02 87	C 0.02 87	C 0.02 87	C 0.03 87	C 0.01 87	C 0.02 87
192	A 0.06 42	A 0.02 42	A 0.01 42	A 0.01 42	A 0.02 42	A 0.01 42	A 0.01 42	A 0.02 42
193	A 0.06 49	A 0.01 49	A 0.01 49	A 0.01 49	A 0. 49	A 0. 49	A 0.01 49	A 0.02 49
194	A 0.16 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0.02 50	A 0.01 50	A 0.01 50	A 0.02 50
195	C 0.04 66	C 0.01 66	C 0.01 66	C 0.01 66	C 0.02 66	C 0.01 66	C 0. 66	C 0.02 66
196	C 0.11 87	C 0.02 87	C 0.01 87	C 0.01 87	C 0.01 87	C 0.01 87	C 0.01 87	C 0.02 87
197	A 0.01 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0. 42	A 0.01 42	A 0.01 42	A 0.02 42
198	C 0.12 87	C 0.04 87	C 0.01 87	C 0.01 87	C 0.02 87	C 0.02 87	C 0.01 87	C 0.02 87
199	B 0.48 80	B 0.03 80	B 0.01 80	B 0.01 80	B 0.02 80	B 0.01 80	B 0.01 80	B 0. 80
200	A 0. 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0.02 26
201	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0. 37
202	A 0.01 15	A 0.01 15	A 0. 15	A 0.01 15	A 0. 15	A 0.02 15	A 0. 15	A 0.02 15
203	C 0.05 115	C 0.04 115	C 0.02 115	C 0.02 115	C 0.02 115	C 0.02 115	C 0.02 115	C 0.02 115
204	A 0.01 39	A 0.01 39	A 0. 39	A 0.01 39	A 0. 39	A 0. 39	A 0. 39	A 0. 39
205	A 0.01 26	A 0.01 26	A 0. 26	A 0. 26	A 0.02 26	A 0. 26	A 0. 26	A 0. 26
206	A 0. 13	A 0.01 13	A 0. 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13	A 0. 13
207	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0.02 22	A 0.02 22	A 0. 22	A 0.02 22
208	A 0.01 49	A 0.01 49	A 0.01 49	A 0.01 49	A 0. 49	A 0. 49	A 0.01 49	A 0.02 49
209	A 0.01 49	A 0.01 49	A 0.01 49	A 0.01 49	A 0.02 49	A 0. 49	A 0.01 49	A 0. 49
210	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0.02 90	A 0. 90	A 0.01 90	A 0.02 90
211	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0. 90	A 0.01 90	A 0.01 90	A 0. 90
212	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0. 90	A 0.02 90
213	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0. 90	A 0.01 90	A 0.01 90	A 0.02 90

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Table 34 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
214	C 0.06 45	C 0.06 45	C 0.05 46	C 0.04 46	C 0.04 46	C 0.05 46	C 0.01 46	C 0. 46
215	C 0.02 82	C 0.03 82	C 0.02 83	C 0.01 83	C 0.05 83	C 0.05 83	C 0.01 83	C 0.02 83
216	C 0.09 118	C 0.1 130	C 0.07 131	C 0.07 131	C 0.07 131	C 0.08 131	C 0.02 131	C 0.06 131
217	C 0.1 275	C 0.18 1181	C 0.14 1190	C 0.13 1190	C 0.16 1190	C 0.19 1190	C 0.05 1190	C 0.14 1190
218	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
219	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
220	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
221	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
222	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
223	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.33 $1_Algebraic_functions\1.2Trinomialproducts\1.2.2Quartic\1.2.2.3(d+ex^2)^m(a+bx^2+cx^4)^p$

Table 35: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 260	A 0.01 260	A 0.01 260	A 0.01 260	A 0. 260	A 0. 260	A 0. 260	A 0. 260
2	B 0.01 122	B 0.01 122	B 0. 122	B 0.01 122	B 0. 122	B 0. 122	B 0. 122	B 0. 122
3	B 0.01 122	B 0.01 122	B 0.01 122	B 0.01 122	B 0. 122	B 0. 122	B 0. 122	B 0.02 122
4	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
5	B 0.01 290	B 0.01 290	B 0.01 290	B 0.01 290	B 0.02 290	B 0.01 290	B 0.01 290	B 0.02 290
6	A 0.04 71	A 0.05 71	A 0.04 71	A 0.04 71	A 0.03 71	A 0.05 71	A 0.02 71	A 0.03 71
7	A 0.04 71	A 0.05 71	A 0.04 71	A 0.04 71	A 0.03 71	A 0.04 71	A 0.02 71	A 0.03 71
8	A 0.03 75	A 0.04 75	A 0.04 75	A 0.04 75	A 0.05 75	A 0.03 75	A 0.02 75	A 0.03 75
9	A 0.04 61	A 0.05 61	A 0.04 61	A 0.04 61	A 0.03 61	A 0.05 61	A 0.02 61	A 0.03 61
10	B 0.09 582	B 0.09 582	B 0.07 582	B 0.06 582	B 0.05 582	B 0.08 582	B 0.03 582	B 0.05 582
11	B 0. 582	B 0.05 582	B 0. 582	B 0. 582	B 0.03 582	B 0.05 582	B 0.01 582	B 0.02 582

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Table 35 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12
13	A 0.04 40	A 0.05 40	A 0.04 40	A 0.04 40	A 0.04 40	A 0.03 40	A 0.02 40	A 0.03 38
14	B 0.06 136	B 0.07 136	B 0.06 136	B 0.06 136	B 0.06 136	B 0.05 136	B 0.03 136	B 0.03 136
15	A 0.04 39	A 0.04 39	A 0.04 39	A 0.04 39	A 0.03 39	A 0.03 39	A 0.02 39	A 0.03 38
16	A 0.02 39	A 0.04 39	A 0.02 39	A 0.02 39	A 0.03 39	A 0.03 39	A 0.02 39	A 0.02 38
17	A 0.04 39	A 0.04 39	A 0.04 39	A 0.04 39	A 0.04 39	A 0.04 39	A 0.02 39	A 0.02 38
18	B 0.05 279	B 0.06 279	B 0.05 279	B 0.04 279	B 0.05 279	B 0.05 279	B 0.02 279	B 0.03 279
19	B 0.06 136	B 0.07 136	B 0.07 136	B 0.06 136	B 0.05 136	B 0.05 136	B 0.03 136	B 0.05 136
20	A 0. 62	A 0. 62	A 0. 62	A 0. 62	A 0. 62	A 0. 62	A 0. 62	A 0. 62
21	A 0.01 114	A 0.01 114	A 0.01 114	A 0.01 114	A 0.01 114	A 0.01 114	A 0. 114	A 0.02 114
22	A 0.02 89	A 0.02 89	A 0.02 89	A 0.02 89	A 0.02 89	A 0.02 89	A 0.01 89	A 0. 89
23	B 0.53 200	B 0.03 200	B 0.02 200	B 0.02 200	B 0.02 200	B 0.02 200	B 0.01 200	B 0.03 200
24	B 0.03 113	B 0.02 113	B 0.02 113	B 0.01 113	B 0.02 113	B 0.02 113	B 0.01 113	B 0.02 113
25	C 0.03 388	C 0.04 388	C 0.03 388	C 0.02 388	C 0.04 388	C 0.03 388	C 0.02 388	C 0.03 388
26	C 0.04 110	C 0.04 110	C 0.05 110	C 0.03 110	C 0.04 110	C 0.05 110	C 0.02 110	C 0.03 110
27	C 0.04 86	C 0.04 86	C 0.03 86	C 0.03 86	C 0.03 86	C 0.03 86	C 0.02 86	C 0.03 86
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	A 0.02 73	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.01 70	A 0. 70
31	B 0.06 1442	B 0.06 1442	B 0.05 1442	B 0.04 1442	B 0.05 1442	B 0.03 1442	B 0.03 1442	B 0.06 1442
32	B 0.04 441	B 0.04 441	B 0.03 441	B 0.03 441	B 0.03 441	B 0.04 441	B 0.02 441	B 0.05 441
33	B 0.04 911	B 0.04 911	B 0.03 911	B 0.03 911	B 0.03 911	B 0.03 911	B 0.02 911	B 0.05 911
34	A 0.01 79	A 0.01 79	A 0.01 79	A 0.01 79	A 0.01 79	A 0.02 79	A 0.01 79	A 0.02 79
35	B 0.07 4308	B 0.07 4332	B 0.04 4332	B 0.04 4332	B 0.04 4332	B 0.05 4332	B 0.03 4332	B 0.06 4308
36	A 0.01 118	A 0.02 118	A 0.01 118	A 0.01 118	A 0. 118	A 0.02 118	A 0. 118	A 0. 118
37	B 0.07 1888	B 0.09 1888	B 0.07 1888	B 0.06 1888	B 0.05 1888	B 0.08 1888	B 0.01 1888	B 0.05 1888
38	B 0.13 1761	B 0.07 1103	B 0.05 1103	B 0.04 1103	B 0.05 1103	B 0.06 1103	B 0.01 1103	B 0.03 1103
39	A 0.02 229	A 0.02 229	A 0.01 229	A 0.01 229	A 0.02 229	A 0.02 229	A 0.01 229	A 0.02 229

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Table 35 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
40	A 0.01 100	A 0.01 100	A 0.01 100	A 0.01 100	A 0. 100	A 0.01 100	A 0.01 100	A 0.02 100
41	C 0.03 155	C 0.03 155	C 0.02 155	C 0.02 155	C 0.01 155	C 0.04 155	C 0.02 155	C 0.03 155
42	C 0.01 121	C 0.01 121	C 0. 121	C 0. 121	C 0. 121	C 0. 121	C 0. 121	C 0. 121
43	C 0.03 138	C 0.03 138	C 0.02 138	C 0.02 138	C 0.03 138	C 0.03 138	C 0.02 138	C 0.03 138
44	C 0.04 206	C 0.04 206	C 0.03 206	C 0.03 206	C 0.03 206	C 0.03 206	C 0.03 206	C 0.03 206
45	C 0.01 172	C 0.01 172	C 0.01 172	C 0.01 172	C 0.01 172	C 0.02 172	C 0.01 172	C 0.02 172
46	C 0.03 177	C 0.03 177	C 0.03 177	C 0.02 177	C 0.03 177	C 0.02 177	C 0.02 177	C 0.03 177
47	C 0.02 106	C 0.02 106	C 0.01 106	C 0.01 106	C 0. 106	C 0.02 106	C 0.01 106	C 0. 106
48	C 0. 46	C 0.01 46	C 0. 46	C 0. 46	C 0. 46	C 0. 46	C 0. 46	C 0. 46
49	C 0.02 47	C 0.02 47	C 0.02 47	C 0.02 47	C 0.02 47	C 0.02 47	C 0.01 47	C 0.03 47
50	C 0.02 150	C 0.03 150	C 0.02 150	C 0.02 150	C 0.02 150	C 0.02 150	C 0.02 150	C 0.03 150
51	C 0.01 129	C 0.01 129	C 0. 129	C 0. 129	C 0.01 129	C 0. 129	C 0. 129	C 0.02 129
52	B 0.01 159	B 0.01 159	B 0.01 159	B 0.01 159	B 0.01 159	B 0. 159	B 0.01 159	B 0.02 159
53	B 0.01 47	B 0.01 47	B 0.01 47	B 0.01 47	B 0.01 47	B 0. 47	B 0.01 47	B 0.02 47
54	B 0.04 202	B 0.04 202	B 0.04 202	B 0.03 202	B 0.04 202	B 0.05 202	B 0.03 202	B 0.05 202
55	C 0.17 240	C 0.06 240	C 0.03 240	C 0.03 240	C 0.03 240	C 0.03 240	C 0.02 240	C 0.03 240
56	C 0.09 386	C 0.08 386	C 0.06 386	C 0.06 386	C 0.07 386	C 0.07 386	C 0.04 386	C 0.08 386
57	C 0.03 275	C 0.03 275	C 0.02 275	C 0.02 275	C 0.02 275	C 0.02 275	C 0.01 275	C 0.03 275
58	C 0.01 258	C 0.01 258	C 0. 258	C 0. 258	C 0. 258	C 0. 258	C 0. 258	C 0. 258
59	C 0.04 425	C 0.05 425	C 0.03 425	C 0.03 425	C 0.04 425	C 0.06 425	C 0.02 425	C 0.05 425
60	C 0.02 85	C 0.01 85	C 0.01 85	C 0.01 85	C 0.02 85	C 0.02 85	C 0.01 85	C 0. 85
61	C 0.02 232	C 0.02 232	C 0.01 232	C 0.01 232	C 0. 232	C 0.02 232	C 0.01 232	C 0.02 232
62	B 0.04 1186	B 0.05 1186	B 0.04 1186	B 0.03 1186	B 0.04 1186	B 0.04 1186	B 0.02 1186	B 0.05 1186
63	B 0.1 1293	B 0.1 1293	B 0.07 1293	B 0.06 1293	B 0.06 1293	B 0.08 1293	B 0.05 1293	B 0.06 1293
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
66	C 0.02 81	C 0.02 81	C 0.02 81	C 0.02 81	C 0.02 81	C 0.02 81	C 0.01 81	C 0.02 81

2.34 1_Algebraic_functions\1.2Trinomialproducts\1.2.2Quartic\1.2.2.4 $(fx)^m(dx^2)^q(ax^2+cx^4)^p$

Table 36: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0. 126	A 0. 126	A 0. 126	A 0. 126	A 0. 126	A 0. 126	A 0. 126	A 0. 126
2	A 0. 125	A 0. 125	A 0. 125	A 0. 125	A 0. 125	A 0. 125	A 0. 125	A 0. 125
3	A 0. 123	A 0.01 123	A 0. 123	A 0. 123	A 0. 123	A 0. 123	A 0. 123	A 0. 123
4	A 0.03 53	A 0.04 53	A 0.03 53	A 0.02 53	A 0.02 53	A 0.03 53	A 0.02 53	A 0.02 53
5	A 0.02 49	A 0.03 49	A 0.02 49	A 0.02 49	A 0.02 49	A 0.03 49	A 0.02 49	A 0.02 49
6	A 0.04 73	A 0.05 73	A 0.04 73	A 0.04 73	A 0.04 73	A 0.03 73	A 0.03 73	A 0.03 73
7	C 0.16 216	C 0.03 216	C 0.02 216	C 0.02 216	C 0.02 216	C 0.03 216	C 0.02 216	C 0.02 216
8	C 0.02 192	C 0.02 192	C 0.01 192	C 0.01 192	C 0.01 192	C 0.03 192	C 0.01 192	C 0.02 192
9	A 0.03 51	A 0.03 51	A 0.02 51	A 0.02 51	A 0.02 51	A 0.03 51	A 0.02 51	A 0.03 51
10	A 0.02 20	A 0.02 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0.02 20	A 0.01 20	A 0.02 20
11	A 0.02 30	A 0.02 30	A 0.01 30	A 0.01 30	A 0.02 30	A 0. 30	A 0.01 30	A 0.02 30
12	C 0.04 170	C 0.04 170	C 0.02 170	C 0.02 170	C 0.03 170	C 0.03 170	C 0.02 170	C 0.03 170
13	A 0.03 40	A 0.03 40	A 0.02 40	A 0.02 40	A 0.03 40	A 0.02 40	A 0.02 40	A 0.03 40
14	B 0.02 2295	B 0.02 2295	B 0.02 2295	B 0.02 2295	B 0.03 2295	B 0.03 2295	B 0.02 2295	B 0.03 2295
15	B 0. 130	B 0. 130	B 0. 130	B 0. 130	B 0. 130	B 0. 130	B 0. 130	B 0. 130
16	A 0.01 132	A 0.01 132	A 0. 132	A 0. 132	A 0. 132	A 0.02 132	A 0. 132	A 0. 132
17	A 0.01 131	A 0.02 131	A 0.01 131	A 0.01 131	A 0. 131	A 0.02 131	A 0. 131	A 0.02 131
18	A 0.02 57	A 0.02 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0.02 57	A 0.01 57	A 0.02 57
19	A 0.02 79	A 0.02 78	A 0.02 78	A 0.02 79	A 0.02 79	A 0.03 78	A 0.01 79	A 0.02 78
20	A 0.03 188	A 0.03 188	A 0.02 188	A 0.02 188	A 0.02 188	A 0.01 186	A 0.01 188	A 0.02 188
21	A 0.04 249	A 0.04 249	A 0.03 249	A 0.02 249	A 0.03 249	A 0.03 249	A 0.01 249	A 0.02 249
22	A 0. 223	A 0. 223	A 0. 223	A 0. 223	A 0. 223	A 0. 223	A 0. 223	A 0. 223
23	B 0. 560	B 0. 560	B 0. 560	B 0.04 560	B 0.02 560	B 0. 560	B 0. 560	B 0. 560
24	B 0.03 542	B 0.03 516	B 0.02 516	B 0.02 516	B 0.02 516	B 0.03 516	B 0.01 516	B 0.02 516
25	A 0.02 158	B 0.02 327	B 0.01 327	B 0.02 327	B 0.02 327	B 0.02 327	B 0.01 327	B 0.02 327

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Table 36 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
26	B 0.11 2995	B 0.1 1912	B 0.07 1912	B 0.06 1912	B 0.06 1912	B 0.08 1912	B 0.02 1912	B 0.03 1912
27	B 0.24 8433	B 0.16 7124	B 0.11 7124	B 0.1 7124	B 0.09 7124	B 0.14 7124	B 0.03 7124	B 0.03 7124
28	A 0. 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
29	A 0.04 91	A 0.06 91	A 0.03 91	A 0.03 91	A 0.04 91	A 0.04 91	A 0.03 91	A 0.03 91
30	A 0.03 104	A 0.04 104	A 0.03 104	A 0.02 104	A 0.03 104	A 0.03 104	A 0.02 104	A 0.03 104
31	A 0.37 243	A 0.04 243	A 0.02 243	A 0.02 243	A 0.01 243	A 0.02 243	A 0.02 243	A 0.03 243
32	A 0.02 226	A 0.02 226	A 0.01 226	A 0.01 226	A 0.02 226	A 0.01 226	A 0.01 226	A 0.02 226
33	A 0.04 228	A 0.04 228	A 0.03 228	A 0.02 228	A 0.03 228	A 0.03 228	A 0.02 228	A 0.03 228
34	A 0.05 138	A 0.06 138	A 0.05 138	A 0.04 138	A 0.05 138	A 0.06 138	A 0.04 138	A 0.06 138
35	A 0.04 117	A 0.05 117	A 0.03 117	A 0.03 117	A 0.03 117	A 0.04 117	A 0.03 117	A 0.05 117
36	A 0.04 277	A 0.03 277	A 0.02 277	A 0.02 277	A 0.02 277	A 0.03 277	A 0.02 277	A 0.03 277
37	A 0.03 52	A 0.03 52	A 0.02 52	A 0.02 52	A 0.02 52	A 0.02 52	A 0.02 52	A 0.03 52
38	A 0.03 66	A 0.04 66	A 0.03 66	A 0.02 66	A 0.03 66	A 0.03 66	A 0.02 66	A 0.02 66
39	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22
40	A 0.04 240	A 0.03 240	A 0.02 240	A 0.02 240	A 0.02 240	A 0.03 240	A 0.02 240	A 0.03 240
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	B 0.01 221	B 0.01 221	B 0. 221	B 0.01 221	B 0.01 221	B 0.01 221	B 0.01 221	B 0. 221
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73
52	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73	A 0. 73
53	A 0.02 179	A 0.02 176	A 0.01 176	A 0.01 176	A 0.02 176	A 0. 176	A 0. 176	A 0. 176

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Table 36 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
54	A 0.01 289	A 0.02 289	A 0.02 289	A 0.02 289	A 0.02 289	A 0.02 289	A 0.01 289	A 0.02 289
55	B 0.06 1449	B 0.08 1449	B 0.06 1449	B 0.06 1449	B 0.05 1449	B 0.07 1449	B 0.01 1449	B 0.03 1449
56	B 0.06 1009	B 0.06 1009	B 0.04 1009	B 0.05 1009	B 0.06 1009	B 0.06 1009	B 0.03 1009	B 0.05 1009
57	C 0.11 448	C 0.06 448	C 0.05 448	C 0.05 448	C 0.05 448	C 0.05 448	C 0.04 448	C 0.05 448
58	C 0.03 549	C 0.04 549	C 0.03 549	C 0.02 549	C 0.03 549	C 0.01 549	C 0.02 549	C 0.03 549
59	B 0.09 2068	B 0.1 2068	B 0.08 2068	B 0.07 2068	B 0.06 2068	B 0.08 2068	B 0.06 2068	B 0.09 2068
60	B 0.01 1411	B 0.01 1411	B 0.01 1411	B 0.01 1411	B 0.02 1411	B 0.02 1411	B 0.01 1411	B 0. 1411
61	C 0.04 528	C 0.05 528	C 0.04 528	C 0.03 528	C 0.03 528	C 0.03 528	C 0.03 528	C 0.03 528
62	A 0.04 207	A 0.05 207	A 0.03 207	A 0.03 207	A 0.03 207	A 0.04 207	A 0.02 207	A 0.05 207
63	C 0.03 134	C 0.03 134	C 0.02 134	C 0.02 134	C 0.02 134	C 0.02 134	C 0.02 134	C 0.03 134
64	B 0.08 720	B 0.09 720	B 0.07 720	B 0.06 720	B 0.08 720	B 0.08 720	B 0.05 720	B 0.09 720
65	C 0.03 536	C 0.04 536	C 0.03 536	C 0.03 536	C 0.02 536	C 0.03 536	C 0.02 536	C 0.05 536
66	C 0.01 366	C 0.01 366	C 0.01 366	C 0.01 366	C 0.02 366	C 0.01 366	C 0.01 366	C 0.02 366
67	C 0.06 332	C 0.07 332	C 0.05 342	C 0.05 342	C 0.05 342	C 0.08 342	C 0.04 342	C 0.02 342
68	C 0.05 272	C 0.06 272	C 0.04 273	C 0.04 273	C 0.04 273	C 0.05 273	C 0.03 273	C 0.05 273
69	C 0.05 382	C 0.05 382	C 0.04 385	C 0.04 385	C 0.03 385	C 0.05 385	C 0.02 385	C 0.05 385
70	B 0.14 2770	B 0.16 2770	B 0.15 2770	B 0.14 2770	B 0.11 2770	B 0.16 2770	B 0.07 2770	B 0.08 2770
71	C 0.05 338	C 0.06 338	C 0.05 342	C 0.05 342	C 0.05 342	C 0.05 342	C 0.03 342	C 0.05 342
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.35 1_Algebraic_functions\1.2Trinomialproducts\1.2.2Quartic\1.2.2.5Pq(x) (a+bx²+cx⁴)^p

Table 37: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41
2	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58
3	A	0.	183	A	0.	183	A	0.	183	A	0.	183	A	0.	183	A	0.	183	A	0.	183	A	0.	183
4	B	0.02	179	B	0.03	179	B	0.02	179	B	0.02	179	B	0.03	179	B	0.02	179	B	0.01	179	B	0.	179
5	A	0.01	92	A	0.01	92	A	0.01	92	A	0.01	92	A	0.02	92	A	0.	92	A	0.01	92	A	0.	92
6	A	0.01	148	A	0.01	148	A	0.01	148	A	0.01	148	A	0.02	148	A	0.01	148	A	0.01	148	A	0.02	148
7	B	0.01	241	B	0.02	241	B	0.01	241	B	0.01	241	B	0.02	241	B	0.02	241	B	0.01	241	B	0.	241
8	B	0.08	3835	B	0.12	3835	B	0.1	3835	B	0.1	3835	B	0.09	3835	B	0.11	3835	B	0.05	3835	B	0.09	3835
9	B	0.21	3544	B	0.17	1852	B	0.14	1852	B	0.14	1852	B	0.16	1852	B	0.16	1852	B	0.06	1852	B	0.09	1852
10	A	0.04	370	A	0.03	370	A	0.03	370	A	0.03	370	A	0.03	370	A	0.04	370	A	0.01	370	A	0.	370
11	B	0.	829	B	0.01	829	B	0.	829	B	0.	829	B	0.	829	B	0.	829	B	0.	829	B	0.	829
12	A	0.	58	A	0.01	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58
13	A	0.01	122	A	0.01	122	A	0.01	122	A	0.	122	A	0.	122	A	0.	122	A	0.	122	A	0.	122
14	A	0.01	20	A	0.02	20	A	0.02	20	A	0.02	20	A	0.01	20	A	0.02	20	A	0.	20	A	0.02	20
15	A	0.02	40	A	0.03	40	A	0.02	40	A	0.02	40	A	0.03	40	A	0.03	40	A	0.01	40	A	0.02	40
16	A	0.02	178	A	0.03	178	A	0.02	178	A	0.02	178	A	0.02	178	A	0.03	178	A	0.01	178	A	0.02	178
17	A	0.02	47	A	0.03	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.01	47	A	0.	47
18	A	0.02	106	A	0.03	106	A	0.02	106	A	0.02	106	A	0.01	106	A	0.02	106	A	0.01	106	A	0.02	106
19	A	0.03	210	A	0.03	210	A	0.02	210	A	0.02	210	A	0.02	210	A	0.02	210	A	0.01	210	A	0.02	210
20	B	0.03	3038	B	0.04	3038	B	0.02	3038	B	0.02	3038	B	0.03	3038	B	0.03	3038	B	0.02	3038	B	0.03	3038
21	B	0.09	1395	B	0.1	1395	B	0.08	1395	B	0.08	1395	B	0.08	1395	B	0.09	1395	B	0.07	1395	B	0.09	1395
22	A	0.01	18	A	0.01	18	A	0.01	18	A	0.01	18	A	0.02	18	A	0.02	18	A	0.01	18	A	0.02	18
23	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.02	63	A	0.01	63	A	0.02	63

2.36 1_Algebraic_functions\1.2Trinomialproducts\1.2.2Quartic\1.2.2.6(dx)^mPq(x)(a+bx²+cx⁴)^p

Table 38: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	61	A	0.	61	A	0.	61	A	0.	61	A	0.	61	A	0.	61	A	0.	61	A	0.	61
2	A	0.01	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.01	57	A	0.01	57	A	0.	57	A	0.	57
3	A	0.01	58	A	0.02	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.	58
4	A	0.	149	A	0.01	149	A	0.	149	A	0.01	149	A	0.	149	A	0.01	149	A	0.	149	A	0.	149
5	A	0.01	148	A	0.02	148	A	0.01	148	A	0.01	148	A	0.	148	A	0.01	148	A	0.	148	A	0.	148
6	A	0.01	144	A	0.02	144	A	0.01	144	A	0.01	144	A	0.01	144	A	0.01	144	A	0.01	144	A	0.02	144
7	B	0.08	1622	B	0.11	1622	B	0.09	1622	B	0.09	1622	B	0.08	1622	B	0.11	1622	B	0.04	1622	B	0.08	1622
8	B	0.07	1054	B	0.1	1054	B	0.08	1054	B	0.07	1054	B	0.08	1054	B	0.1	1054	B	0.04	1054	B	0.08	1054
9	B	0.11	3041	B	0.21	2432	B	0.18	2432	B	0.17	2432	B	0.17	2432	B	0.22	2432	B	0.08	2432	B	0.12	2432
10	B	0.02	5520	B	0.02	5520	B	0.02	5520	B	0.02	5520	B	0.02	5520	B	0.04	5520	B	0.03	5520	B	0.05	5520
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	B	0.1	4063	B	0.22	2341	B	0.18	2341	B	0.17	2341	B	0.16	2341	B	0.22	2341	B	0.08	2341	B	0.11	2341
13	B	0.03	1764	B	0.04	1222	B	0.03	1222	B	0.03	1222	B	0.02	1222	B	0.03	1222	B	0.01	1222	B	0.03	1222
14	B	0.02	671	B	0.03	617	B	0.02	617	B	0.02	617	B	0.03	617	B	0.02	617	B	0.01	617	B	0.	617
15	B	0.14	5528	B	0.12	3568	B	0.09	3568	B	0.08	3568	B	0.08	3568	B	0.1	3568	B	0.02	3568	B	0.03	3568
16	B	0.11	6122	B	0.12	2955	B	0.1	2955	B	0.09	2955	B	0.08	2955	B	0.12	2955	B	0.02	2955	B	0.05	2955
17	A	0.02	38	A	0.02	38	A	0.02	38	A	0.02	38	A	0.03	38	A	0.02	38	A	0.01	38	A	0.02	38
18	A	0.02	43	A	0.03	43	A	0.02	43	A	0.02	43	A	0.02	43	A	0.02	43	A	0.01	43	A	0.	43
19	A	0.02	48	A	0.03	48	A	0.02	48	A	0.02	48	A	0.02	48	A	0.02	48	A	0.01	48	A	0.02	48
20	A	0.02	54	A	0.02	58	A	0.02	58	A	0.02	58	A	0.02	58	A	0.02	58	A	0.	58	A	0.02	58
21	A	0.02	58	A	0.03	63	A	0.02	63	A	0.02	63	A	0.02	63	A	0.02	63	A	0.01	63	A	0.02	63
22	A	0.03	64	A	0.03	68	A	0.02	68	A	0.02	68	A	0.03	68	A	0.01	68	A	0.01	68	A	0.	68
23	A	0.02	68	A	0.03	73	A	0.03	73	A	0.02	73	A	0.03	73	A	0.02	73	A	0.01	73	A	0.02	73
24	A	0.02	68	A	0.03	68	A	0.02	68	A	0.02	68	A	0.03	68	A	0.03	68	A	0.01	68	A	0.02	68
25	A	0.02	73	A	0.03	73	A	0.02	73	A	0.02	73	A	0.03	73	A	0.02	73	A	0.01	73	A	0.02	73
26	B	0.11	412	B	0.29	915	B	0.24	915	B	0.23	915	B	0.22	915	B	0.26	915	B	0.12	915	B	0.19	915
27	B	0.04	414	B	0.21	1044	B	0.17	1044	B	0.18	1044	B	0.17	1044	B	0.21	1044	B	0.08	1044	B	0.11	1044

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Table 38 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	B 0.04 419	B 0.21 1043	B 0.18 1043	B 0.18 1043	B 0.17 1043	B 0.19 1043	B 0.08 1043	B 0.12 1043
29	C 0.07 148	C 0.05 148	C 0.05 148	C 0.04 148	C 0.05 148	C 0.03 148	C 0.03 148	C 0.05 148

2.37 $1_Algebraic_functions\1.2Trinomialproducts\1.2.3General\1.2.3.2(dx)^m(a+bx^n+cx^{(2n)})^p$

Table 39: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 39	A 0.01 39	A 0. 39	A 0. 39	A 0.01 39	A 0. 39	A 0.01 39	A 0. 39
2	A 0. 38	A 0. 38	A 0. 38	A 0.01 38	A 0.02 38	A 0.01 38	A 0.01 38	A 0. 38
3	A 0. 36	A 0.01 36	A 0. 36	A 0. 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36
4	A 0.01 36	A 0.01 36	A 0. 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36
5	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0. 58
6	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58
7	A 0.02 59	A 0.03 59	A 0.02 59	A 0.02 59	A 0.02 59	A 0.02 59	A 0.01 59	A 0. 59
8	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.02 58
9	A 0.01 58	A 0.02 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0. 58
10	A 0.02 80	A 0.02 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.02 80
11	A 0.01 80	A 0.02 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.02 80
12	A 0.01 80	A 0.02 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.02 80
13	A 0.02 82	A 0.03 82	A 0.02 82	A 0.02 82	A 0.02 82	A 0.02 82	A 0.01 82	A 0.03 82
14	A 0.02 82	A 0.03 82	A 0.02 82	A 0.02 82	A 0.02 82	A 0.02 82	A 0.01 82	A 0.02 82
15	A 0.02 82	A 0.03 82	A 0.02 82	A 0.02 82	A 0.02 82	A 0.02 82	A 0.01 82	A 0.02 82
16	B 0.01 78	B 0.02 78	B 0.01 78	B 0.01 78	B 0.01 78	B 0.01 78	B 0.01 78	B 0.02 78
17	A 0.01 80	A 0.02 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.01 80	A 0.02 80
18	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0.01 24	A 0. 24
19	A 0.01 299	A 0.02 299	A 0.01 299	A 0.02 299	A 0.03 299	A 0.07 299	A 0.01 299	A 0.02 299

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Table 39 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
20	A	0.03	316	A	0.04	316	A	0.02	316	A	0.02	316	A	0.03	316	A	0.02	316	A	0.01	316	A	0.02	316
21	A	0.01	24	A	0.02	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.02	24
22	B	0.04	536	B	0.04	536	B	0.03	536	B	0.03	536	B	0.03	536	B	0.03	536	B	0.02	536	B	0.02	536
23	A	0.01	198	A	0.02	198	A	0.01	198	A	0.01	198	A	0.01	198	A	0.01	198	A	0.01	198	A	0.02	198
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.02	40
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
28	A	0.01	119	A	0.02	119	A	0.01	119	A	0.01	119	A	0.01	119	A	0.01	119	A	0.	119	A	0.02	119
29	C	0.06	40	C	0.06	40	C	0.04	39	C	0.05	39	C	0.06	39	C	0.13	39	C	0.	39	C	0.	39
30	C	0.01	61	C	0.04	61	C	0.02	62	C	0.02	62	C	0.04	62	C	0.04	62	C	0.01	62	C	0.	62
31	A	0.01	23	A	0.02	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.01	23	A	0.	23
32	A	0.02	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.01	89	A	0.02	89
33	A	0.01	84	A	0.02	84	A	0.01	84	A	0.01	84	A	0.02	84	A	0.02	84	A	0.01	84	A	0.	84
34	A	0.01	35	A	0.02	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.02	35
35	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
36	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
37	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
38	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
40	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
41	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
43	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
45	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 39 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
48	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
49	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
52	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
53	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	A	0.01	21	A	0.02	21	A	0.02	21	A	0.02	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.	21
56	A	0.01	69	A	0.02	69	A	0.01	69	A	0.01	69	A	0.01	69	A	0.01	69	A	0.	69	A	0.	69
57	A	0.01	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.	68	A	0.	68
58	A	0.01	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.	68	A	0.02	68
59	A	0.02	41	A	0.02	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.	41
60	A	0.02	42	A	0.03	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.01	42	A	0.02	42
61	A	0.02	47	A	0.03	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.01	47	A	0.	47
62	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
63	A	0.02	120	A	0.04	120	A	0.02	120	A	0.02	120	A	0.03	120	A	0.04	120	A	0.	120	A	0.02	120
64	C	0.02	59	C	0.04	59	C	0.02	59	C	0.02	59	C	0.04	59	C	0.05	59	C	0.	59	C	0.	59
65	C	0.	43	C	0.01	43	C	0.	42	C	0.	42	C	0.03	42	C	0.04	42	C	0.	42	C	0.	42
66	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
67	A	0.	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
68	A	0.01	62	A	0.01	62	A	0.01	62	A	0.01	62	A	0.01	62	A	0.01	62	A	0.01	62	A	0.02	62
69	B	0.01	87	B	0.02	87	B	0.02	87	B	0.02	87	B	0.02	87	B	0.02	87	B	0.01	87	B	0.02	87
70	A	0.01	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.02	57	A	0.02	57	A	0.01	57	A	0.02	57
71	B	0.01	94	B	0.02	94	B	0.01	94	B	0.01	94	B	0.02	94	B	0.02	94	B	0.01	94	B	0.02	94
72	A	0.01	95	A	0.02	95	A	0.01	95	A	0.01	95	A	0.02	95	A	0.02	95	A	0.01	95	A	0.02	95
73	A	0.03	67	A	0.05	67	A	0.03	67	A	0.04	67	A	0.04	67	A	0.05	67	A	0.02	67	A	0.03	68
74	A	0.02	67	A	0.03	67	A	0.02	67	A	0.02	67	A	0.03	67	A	0.03	67	A	0.02	67	A	0.02	68
75	A	0.03	114	A	0.05	114	A	0.04	114	A	0.04	114	A	0.04	114	A	0.04	114	A	0.02	114	A	0.03	115

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Table 39 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
76	A	0.02	114	A	0.05	114	A	0.03	114	A	0.03	114	A	0.04	114	A	0.04	114	A	0.02	114	A	0.03	115
77	A	0.01	38	A	0.01	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38
78	A	0.	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
79	C	0.02	52	C	0.03	52	C	0.02	40	C	0.02	40	C	0.03	40	C	0.05	40	C	0.01	40	C	0.02	40
80	B	0.05	117	B	0.07	117	B	0.06	117	B	0.06	117	B	0.06	117	B	0.06	117	B	0.03	117	B	0.05	117
81	A	0.01	35	A	0.02	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35
82	B	0.03	117	B	0.06	117	B	0.04	117	B	0.04	117	B	0.05	117	B	0.05	117	B	0.02	117	B	0.03	117
83	A	0.	33	A	0.01	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
84	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
85	A	0.02	64	A	0.03	64	A	0.02	64	A	0.02	64	A	0.02	64	A	0.06	64	A	0.01	64	A	0.02	64
86	A	0.07	211	A	0.1	211	A	0.09	211	A	0.1	211	A	0.1	211	A	0.1	211	A	0.05	211	A	0.06	211
87	A	0.06	216	A	0.09	216	A	0.08	216	A	0.07	216	A	0.08	216	A	0.08	216	A	0.08	216	F	0	0
88	B	0.05	66	B	0.05	66	A	0.05	60	A	0.05	60	A	0.05	60	A	0.05	60	A	0.04	60	A	0.06	60
89	A	0.	101	A	0.01	101	A	0.	101	A	0.	101	A	0.01	101	A	0.01	101	A	0.	101	A	0.02	101
90	A	0.01	112	A	0.02	112	A	0.01	112	A	0.01	112	A	0.01	112	A	0.01	112	A	0.	112	A	0.	112
91	B	0.03	1524	B	0.02	1090	B	0.02	1090	B	0.02	1090	B	0.02	1090	B	0.02	1090	B	0.01	1090	B	0.	1090
92	B	0.02	260	B	0.02	721	B	0.01	721	B	0.01	721	B	0.01	721	B	0.01	721	B	0.01	721	B	0.02	721
93	A	0.01	130	A	0.01	130	A	0.01	130	A	0.01	130	A	0.01	130	A	0.01	130	A	0.	130	A	0.	130
94	A	0.01	129	A	0.01	129	A	0.01	129	A	0.01	129	A	0.01	129	A	0.01	129	A	0.	129	A	0.02	129
95	B	0.04	1438	B	0.03	672	B	0.02	672	B	0.02	672	B	0.02	672	B	0.02	672	B	0.01	672	B	0.	672
96	B	0.02	701	B	0.02	701	B	0.02	701	B	0.02	701	B	0.02	701	B	0.02	701	B	0.01	701	B	0.02	701
97	A	0.02	40	A	0.02	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.02	40
98	A	0.05	65	A	0.06	65	A	0.03	65	A	0.02	65	A	0.03	65	A	0.05	65	A	0.01	65	A	0.02	65
99	A	0.03	103	A	0.03	103	A	0.02	103	A	0.02	103	A	0.03	103	A	0.06	103	A	0.01	103	A	0.02	103
100	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
101	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
102	A	0.03	115	A	0.03	115	A	0.02	115	A	0.02	115	A	0.02	115	A	0.02	115	A	0.01	115	A	0.03	115
103	A	0.02	91	A	0.03	91	A	0.02	91	A	0.02	91	A	0.02	91	A	0.02	91	A	0.01	91	A	0.02	91

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Table 39 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
104	A 0.04 33	A 0.04 33	A 0.03 33	A 0.03 33	A 0.03 33	A 0.03 33	A 0.02 33	A 0.12 33
105	A 0.11 37	A 0.08 37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
106	A 0.02 61	A 0.04 61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
107	A 0.03 54	A 0.04 54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
108	A 0.03 138	A 0.04 138	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
109	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
110	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
111	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
112	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
113	A 0.06 51	A 0.06 51	A 0.05 51	A 0.05 51	A 0.05 51	A 0.05 51	A 0.04 51	A 0.25 51
114	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
115	C 0.38 260	C 0.39 260	C 0.34 260	C 0.41 260	C 0.55 260	C 0.93 260	C 0.4 260	C 2.73 350
116	B 0.13 397	B 0.13 397	B 0.12 397	B 0.11 397	B 0.13 397	B 0.14 397	B 0.1 397	B 0.34 397
117	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
118	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
119	C 0.12 1065	C 0.12 1065	C 0.11 1065	C 0.12 1065	C 0.11 1065	C 0.13 1065	C 0.09 1065	C 0.16 1065
120	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
121	B 0. 1314	B 0. 1314	B 0. 1314	B 0. 1314	B 0. 1314	B 0. 1314	B 0. 1314	B 0. 1314
122	B 0. 349	B 0. 349	B 0. 349	B 0. 349	B 0. 349	B 0. 349	B 0. 349	B 0. 349
123	C 0.1 184	C 0.1 184	C 0.07 189	C 0.07 189	C 0.07 189	C 0.08 189	C 0.03 189	C 0.03 189
124	C 0.07 319	C 0.08 344	C 0.04 349	C 0.04 349	C 0.06 349	C 0.06 349	C 0.02 349	C 0.06 349
125	C 0.14 885	C 0.13 933	C 0.09 944	C 0.08 944	C 0.1 944	C 0.11 944	C 0.05 944	C 0.16 944
126	C 0.01 164	C 0.04 164	C 0.02 168	C 0.02 168	C 0.03 168	C 0.04 168	C 0. 168	C 0. 168
127	C 0.01 130	C 0.04 130	C 0.02 134	C 0.02 134	C 0.03 134	C 0.04 134	C 0. 134	C 0.02 134
128	C 0.02 222	C 0.06 222	C 0.03 229	C 0.02 229	C 0.04 229	C 0.04 229	C 0.01 229	C 0.02 229
129	C 0.04 695	C 0.1 862	C 0.06 871	C 0.05 871	C 0.07 871	C 0.08 871	C 0.02 871	C 0.08 871
130	C 0.06 714	C 0.11 807	C 0.07 818	C 0.07 818	C 0.08 818	C 0.09 818	C 0.02 818	C 0.06 818
131	C 0.17 7019	C 0.23 8573	C 0.16 8605	C 0.15 8605	C 0.17 8605	C 0.19 8605	C 0.08 8605	C 0.22 8605

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Table 39 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
132	B 0. 105	B 0.01 105	B 0. 105	B 0. 105	B 0. 105	B 0. 105	B 0. 105	B 0. 105
133	B 0.01 175	B 0.01 175	B 0. 175	B 0. 175	B 0. 175	B 0. 175	B 0. 175	B 0. 175

2.38 $1_Algebraic_functions\1.2Trinomialproducts\1.2.3General\1.2.3.3(d+ex^n)^q(a+bx^n+cx^{(2n)})^p$

Table 40: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.12 329	A 0.16 335	A 0.13 329	A 0.13 329	A 0.11 335	A 0.15 329	B 3.15 2245	C 0.28 139
2	A 0.12 380	A 0.15 380	A 0.12 380	A 0.11 380	A 0.11 386	A 0.12 386	C 0.81 140	C 0.23 140
3	C 0.06 55	C 0.07 55	C 0.05 53	C 0.05 53	C 0.03 53	C 0.06 53	C 0. 53	C 0. 53
4	C 0.01 42	C 0.01 42	C 0.01 27	C 0.01 27	C 0.02 27	C 0.02 27	C 0.01 27	C 0.02 27
5	A 0.02 42	A 0.03 42	A 0.02 42	A 0.02 42	A 0.02 42	A 0.02 42	A 0.01 42	A 0.02 42
6	A 0.04 96	A 0.08 96	A 0.06 96	A 0.06 96	A 0.06 96	A 0.07 96	A 0.03 96	A 0.05 96
7	C 0.01 42	C 0.02 42	C 0.02 30	C 0.01 30	C 0.02 30	C 0.02 30	C 0.01 30	C 0.02 30
8	C 0.01 44	C 0.02 44	C 0.01 30	C 0.01 30	C 0. 30	C 0.01 30	C 0.01 30	C 0.02 30
9	A 0.08 334	A 0.14 340	A 0.1 334	A 0.1 334	A 0.11 340	A 0.12 334	B 2.64 2233	C 0.06 137
10	C 0.02 45	C 0.03 45	C 0.02 48	C 0.02 48	C 0.02 48	C 0.02 48	C 0. 48	C 0. 48
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 40 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.39 $1_Algebraic_functions\1.2Trinomialproducts\1.2.3General\1.2.3.4(fx)^m(dx^n)^q(ax^ncx^{(2n)})^p$

Table 41: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0. 136	A 0. 136	A 0. 136	A 0. 136	A 0. 136	A 0. 136	A 0. 136	A 0. 136
2	A 0. 103	A 0. 103	A 0. 103	A 0. 103	A 0. 103	A 0. 103	A 0. 103	A 0.02 103
3	A 0.02 362	A 0.02 396	A 0.01 396	A 0.01 396	A 0.02 396	A 0.01 396	A 0.01 396	A 0. 396
4	B 0.01 260	B 0.02 260	B 0.01 260	B 0.01 260	B 0.01 260	B 0.01 260	B 0. 260	B 0. 260
5	A 0. 175	A 0.01 175	A 0.01 175	A 0.01 175	A 0.01 175	A 0.02 175	A 0. 175	A 0. 175
6	A 0. 99	A 0.01 99	A 0. 99	A 0. 99	A 0. 99	A 0. 99	A 0. 99	A 0. 99
7	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
8	C 0.01 44	C 0.01 44	C 0.01 29	C 0.01 29	C 0.02 29	C 0. 29	C 0.01 29	C 0.02 29
9	C 0.01 46	C 0.02 46	C 0.02 38	C 0.01 38	C 0.02 38	C 0.02 38	C 0.01 38	C 0. 38
10	B 0.15 956	B 0.12 956	B 0.08 956	B 0.09 956	B 0.08 956	B 0.1 956	B 0.07 956	B 0.09 956
11	C 0.01 47	C 0.03 47	C 0.01 46	C 0. 46	C 0.03 46	C 0.03 46	C 0. 46	C 0.02 46
12	A 0.01 106	A 0.02 106	A 0.01 106	A 0.01 106	A 0.02 106	A 0.02 106	A 0.01 106	A 0. 106
13	C 0.01 72	C 0.02 72	C 0.01 73	C 0.01 73	C 0.03 73	C 0.03 73	C 0.01 73	C 0.02 73
14	C 0. 44	C 0. 44	C 0. 30	C 0. 30	C 0. 30	C 0. 30	C 0. 30	C 0. 30
15	C 0.02 46	C 0.03 46	C 0.02 38	C 0.02 38	C 0.02 38	C 0.02 38	C 0.01 38	C 0.02 38
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	B 0.12 2042	B 0.14 2042	B 0.13 2042	B 0.12 2042	B 0.12 2042	B 0.16 2042	B 0.12 2042	B 0.2 2042
19	A 0.04 24	A 0.04 24	A 0.03 24	A 0.03 24	A 0.03 24	A 0.03 24	A 0.03 24	A 0.11 24
20	A 0.12 22	A 0.1 22	A 0.09 22	A 0.09 22	A 0.09 22	A 0.11 22	A 0.09 22	A 0.16 22

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
21	A	0.	18	A	0.01	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
22	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.02	18	A	0.	18	A	0.	18
23	A	0.04	26	A	0.04	26	A	0.03	26	A	0.03	26	A	0.03	26	A	0.03	26	A	0.03	26	A	0.09	26
24	A	0.01	26	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.02	26
25	A	0.01	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.	26	A	0.02	26	A	0.01	26	A	0.02	26
26	A	0.1	45	A	0.1	45	A	0.09	45	A	0.09	45	A	0.09	45	A	0.13	45	A	0.09	45	A	0.17	45
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.40 $1_Algebraic_functions\1.2Trinomialproducts\1.2.3General\1.2.3.5(dx)^mPq(x)(a+bx^n+cx^{(2n)})^p$

Table 42: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	C	0.03	134	C	0.06	134	C	0.02	134	C	0.02	134	C	0.04	134	C	0.05	134	C	0.01	134	C	0.02	134
2	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
3	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
4	F	0	0	F	0	0	F	0	0	F	0	0	C	0.19	112	C	0.22	112	C	0.17	112	C	0.28	112
5	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.41 $1_Algebraic_functions\1.2Trinomialproducts\1.2.4Improper\1.2.4.2(dx)^m(ax^q+bx^n+cx^{(2n-q)})^p$

Table 43: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20

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Table 43 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
2	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45
3	A	0.	132	A	0.01	132	A	0.	132	A	0.	132	A	0.	132	A	0.01	132	A	0.	132	A	0.	132
4	A	0.	56	A	0.01	56	A	0.	56	A	0.	56	A	0.	56	A	0.	56	A	0.	56	A	0.	56
5	B	0.02	569	B	0.02	387	B	0.01	387	B	0.01	387	B	0.01	387	B	0.01	387	B	0.	387	B	0.	387
6	A	0.01	97	B	0.01	204	B	0.01	204	B	0.01	204	B	0.01	204	B	0.01	204	B	0.	204	B	0.	204
7	B	0.03	923	B	0.03	631	B	0.02	631	B	0.02	631	B	0.01	631	B	0.02	631	B	0.01	631	B	0.02	631
8	A	0.01	265	A	0.02	265	A	0.01	265	A	0.01	265	A	0.02	265	A	0.01	265	A	0.01	265	A	0.02	265
9	B	0.02	387	B	0.02	387	B	0.01	387	B	0.01	387	B	0.01	387	B	0.02	387	B	0.01	387	B	0.02	387
10	A	0.01	338	A	0.01	338	A	0.01	338	A	0.01	338	A	0.02	338	A	0.01	338	A	0.01	338	A	0.02	338
11	A	0.01	201	A	0.01	201	A	0.01	201	A	0.01	201	A	0.	201	A	0.	201	A	0.01	201	A	0.02	201
12	A	0.01	292	A	0.02	292	A	0.01	292	A	0.01	292	A	0.02	292	A	0.02	292	A	0.01	292	A	0.	292
13	A	0.02	340	A	0.02	340	A	0.01	340	A	0.01	340	A	0.02	340	A	0.02	340	A	0.01	340	A	0.02	340
14	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45
15	A	0.	142	A	0.01	142	A	0.	142	A	0.01	142	A	0.	142	A	0.	142	A	0.	142	A	0.02	142
16	A	0.02	208	A	0.04	208	A	0.03	208	A	0.02	208	A	0.04	208	A	0.03	208	A	0.01	208	A	0.02	208
17	A	0.03	232	A	0.05	232	A	0.04	232	A	0.03	232	A	0.03	232	A	0.04	232	A	0.01	232	A	0.02	232
18	B	0.08	2158	B	0.1	1634	B	0.08	1634	B	0.07	1634	B	0.07	1634	B	0.09	1634	B	0.02	1634	B	0.03	1634
19	A	0.08	342	B	0.06	685	B	0.04	685	B	0.04	685	B	0.04	685	B	0.04	685	B	0.01	685	B	0.02	685
20	B	0.08	733	A	0.05	404	A	0.03	404	A	0.03	404	A	0.03	404	A	0.05	404	A	0.01	404	A	0.03	404
21	B	0.08	2349	B	0.1	1542	B	0.08	1542	B	0.07	1542	B	0.07	1542	B	0.08	1542	B	0.02	1542	B	0.03	1542
22	A	0.02	136	A	0.02	136	A	0.02	136	A	0.01	136	A	0.01	136	A	0.02	135	A	0.01	135	A	0.03	136
23	B	0.05	1394	B	0.05	1394	B	0.04	1400	B	0.04	1400	B	0.04	1401	B	0.05	1401	B	0.03	1400	B	0.06	1400
24	A	0.02	72	A	0.02	72	A	0.01	72	A	0.01	72	A	0.01	72	A	0.	72	A	0.01	72	A	0.02	72
25	A	0.03	177	A	0.03	177	A	0.02	178	A	0.02	178	A	0.02	178	A	0.04	178	A	0.01	178	A	0.03	178
26	A	0.01	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35	A	0.02	35
27	A	0.02	74	A	0.03	74	A	0.02	74	A	0.01	74	A	0.02	74	A	0.02	74	A	0.01	74	A	0.02	74
28	A	0.02	50	A	0.02	50	A	0.01	50	A	0.01	50	A	0.	50	A	0.02	50	A	0.01	50	A	0.02	50

2.42 1_Algebraic_functions\1.3Miscellaneous\1.3.1Rationalfunctions

Table 44: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0. 46	A 0.01 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
2	B 0. 98	B 0.01 98	B 0. 98	B 0. 98	B 0. 98	B 0. 98	B 0. 98	B 0. 98
3	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
4	A 0. 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0. 13	A 0.01 13	A 0. 13	A 0.02 13
5	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	B 0. 164	B 0. 164	B 0. 164	B 0. 164	B 0.02 164	B 0. 164	B 0. 164	B 0. 164
9	A 0.01 13	A 0.01 13	A 0.01 13	A 0.01 13	A 0.02 13	A 0. 13	A 0. 13	A 0. 13
10	A 0.01 147	A 0.02 147	A 0.01 147	A 0.01 147	A 0. 147	A 0.01 147	A 0.01 147	A 0.02 147
11	A 0.02 78	A 0.02 78	A 0.02 78	A 0.02 78	A 0.02 78	A 0.02 78	A 0.01 78	A 0.02 78
12	A 0. 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12
13	B 0.02 152	B 0.02 152	B 0.02 152	B 0.02 152	B 0.02 152	B 0.02 152	B 0.01 152	B 0.03 152
14	B 0.08 2105	B 0.11 2105	B 0.09 2105	B 0.09 2105	B 0.08 2105	B 0.09 2105	B 0.04 2105	B 0.08 2105
15	C 0.01 74	C 0.02 74	C 0.01 60	C 0.01 60	C 0.01 60	C 0.01 60	C 0.01 60	C 0.02 60
16	C 0.02 93	C 0.02 93	C 0.01 91	C 0.01 91	C 0.01 91	C 0.01 91	C 0.01 91	C 0. 91
17	C 0.01 93	C 0.01 93	C 0. 91	C 0. 91	C 0.01 91	C 0.02 91	C 0. 91	C 0. 91
18	C 0. 90	C 0.01 90	C 0. 88	C 0. 88	C 0.01 88	C 0. 88	C 0. 88	C 0.02 88
19	C 0.01 133	C 0.02 133	C 0.01 133	C 0.01 133	C 0.03 133	C 0.02 133	C 0.01 133	C 0.02 133
20	C 0.01 56	C 0.01 56	C 0.01 59	C 0.01 59	C 0.01 59	C 0.02 59	C 0.01 59	C 0.02 59
21	C 0.02 122	C 0.02 122	C 0.02 102	C 0.02 102	C 0.02 102	C 0.02 102	C 0.02 102	C 0.03 102
22	C 0.02 122	C 0.02 122	C 0.02 110	C 0.02 110	C 0.02 110	C 0.03 110	C 0.02 110	C 0.02 110
23	A 0.01 19	A 0.02 19	A 0.01 19	A 0.01 19	A 0.01 19	A 0.01 19	A 0. 19	A 0. 19
24	A 0. 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
25	A 0. 19	A 0.01 19	A 0. 19	A 0. 19	A 0.02 19	A 0. 19	A 0. 19	A 0. 19

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Table 44 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
26	A 0.01 20	A 0.02 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0. 20	A 0. 20
27	A 0.01 11	A 0.02 11	A 0.01 11	A 0.01 11	A 0.01 11	A 0.01 11	A 0. 11	A 0.02 11
28	A 0.01 21	A 0.01 21	A 0. 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0. 21	A 0. 21
29	A 0. 34	A 0.01 34	A 0. 34	A 0.01 34	A 0. 34	A 0.01 34	A 0. 34	A 0. 34
30	A 0.01 28	A 0.02 28	A 0.02 28	A 0.02 28	A 0.03 28	A 0.02 28	A 0.01 28	A 0. 28
31	A 0. 20	A 0.01 20	A 0. 20	A 0.02 20	A 0.02 20	A 0.02 20	A 0.01 20	A 0. 20
32	A 0.01 28	A 0.01 28	A 0. 28	A 0. 28	A 0.02 28	A 0.01 28	A 0. 28	A 0.02 28
33	A 0. 28	A 0. 30	A 0. 30	A 0.01 30	A 0. 30	A 0.01 30	A 0. 30	A 0.02 30
34	A 0. 32	A 0. 32	A 0. 32	A 0.01 32	A 0. 32	A 0.02 32	A 0. 32	A 0. 32
35	A 0. 16	A 0. 16	A 0. 16	A 0.02 16	A 0. 16	A 0.02 16	A 0.01 16	A 0. 16
36	A 0. 15	A 0. 15	A 0. 15	A 0.01 15	A 0.02 15	A 0.02 15	A 0. 15	A 0. 15
37	A 0.01 11	A 0.02 11	A 0.01 11	A 0.01 11	A 0.01 11	A 0.01 11	A 0. 11	A 0. 11
38	A 0.01 13	A 0.02 13	A 0.01 13	A 0.01 13	A 0. 13	A 0.01 13	A 0. 13	A 0. 13
39	A 0.01 14	A 0.02 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0.02 14	A 0. 14	A 0. 14
40	A 0. 13	A 0.01 13	A 0. 13	A 0.01 13	A 0. 13	A 0.02 13	A 0. 13	A 0. 13
41	A 0.01 16	A 0.02 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16
42	A 0.01 18	A 0.02 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18
43	A 0.01 18	A 0.02 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0. 18	A 0. 18
44	A 0.01 32	A 0.02 32	A 0.02 32	A 0.01 32	A 0.02 32	A 0.02 32	A 0.01 32	A 0. 32
45	C 0.01 56	C 0.02 56	C 0.01 45	C 0.01 45	C 0.01 45	C 0.02 45	C 0.01 45	C 0.02 45
46	A 0.02 28	A 0.12 24	C 0.1 111	C 0.09 111	C 0.08 111	C 0.11 111	C 0.02 111	C 0.03 111
47	A 0.01 29	A 0.01 29	A 0.01 29	A 0. 29	A 0.02 29	A 0. 29	A 0. 29	A 0. 29
48	A 0.01 23	A 0.02 23	A 0.01 23	A 0.01 23	A 0.01 23	A 0.02 23	A 0. 23	A 0.02 23
49	A 0.01 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0.02 28	A 0. 28	A 0. 28
50	A 0.01 16	A 0.02 16	A 0.01 16	A 0.01 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16
51	A 0. 39	A 0.01 39	A 0. 39	A 0.01 39	A 0.01 39	A 0. 39	A 0. 39	A 0. 39
52	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
53	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13

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Table 44 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
54	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
55	A 0.01 15	A 0.02 15	A 0.01 15	A 0.01 15	A 0.01 15	A 0.02 15	A 0. 15	A 0.02 15
56	A 0. 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
57	A 0.01 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0. 17	A 0.02 17	A 0. 17	A 0. 17
58	A 0. 26	A 0.01 26	A 0. 26	A 0. 26	A 0.02 26	A 0. 26	A 0. 26	A 0. 26
59	A 0.01 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0.02 61	A 0.02 61	A 0. 61	A 0.02 61
60	B 0.05 308	B 0.06 308	B 0.05 308	B 0.1 308	B 0.04 308	B 0.06 308	B 0.02 308	B 0.03 308

2.43 1_Algebraic_functions\1.3Miscellaneous\1.3.2Algebraicfunctions

Table 45: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.02 451	B 0.02 451	B 0.01 451	B 0.01 451	B 0.02 451	B 0.03 451	B 0.02 451	B 0.05 451
2	B 0.03 1565	B 0.02 1565	B 0.02 1565	B 0.02 1565	B 0.02 1565	B 0.07 1565	B 0.07 1565	B 0.12 1565
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	A 0.03 23	A 0.03 23	A 0.03 23	A 0.03 23	A 0.03 23	A 0.03 23	A 0.02 23	A 0.11 23
7	F 0 0	F 0 0	F 0 0	C 1.67 471	F 0 0	F 0 0	F 0 0	F 0 0
8	A 0.03 23	A 0.03 23	A 0.02 23	A 0.02 23	A 0.03 23	A 0.03 23	A 0.02 23	A 0.08 23
9	F 0 0	F 0 0	F 0 0	C 1.68 238	F 0 0	F 0 0	F 0 0	F 0 0
10	A 0.12 29	A 0.12 29	A 0.08 29	B 0.08 136	A 0.08 29	A 0.09 29	A 0.06 29	A 0.17 29
11	F 0 0	F 0 0	F 0 0	C 1.59 541	F 0 0	F 0 0	F 0 0	F 0 0
12	C 0.55 1007	C 0.58 1007	C 0.44 1007	C 0.4 1007	F 0 0	F 0 0	F 0 0	F 0 0
13	C 0.24 336	C 0.24 336	C 0.2 336	C 0.2 336	F 0 0	F 0 0	F 0 0	F 0 0
14	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27

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Table 45 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
15	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
18	A 0. 46	A 0.01 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	A 0. 44	A 0.01 44	A 0. 44	A 0. 44	A 0. 44	A 0. 44	A 0. 44	A 0. 44
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	A 0.01 136	A 0.01 136	A 0.01 136	A 0.01 136	A 0.01 136	A 0. 136	A 0.01 136	A 0.02 136
25	A 0. 29	A 0.01 29	A 0. 29	A 0. 29	A 0. 29	A 0.02 29	A 0. 29	A 0. 29
26	A 0.01 83	A 0.01 83	A 0.01 83	A 0.01 83	A 0.01 83	A 0.02 83	A 0.01 83	A 0. 83
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	A 0. 17	A 0.01 17	A 0. 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
29	A 0. 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
30	A 0.01 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0.02 21	A 0. 21	A 0. 21
31	A 0. 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0.02 21	A 0. 21	A 0. 21
32	A 0. 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
33	A 0. 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
34	A 0. 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17	A 0.02 17
35	A 0. 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
36	A 0.01 94	A 0.01 94	A 0.01 94	A 0.01 94	A 0. 94	A 0.01 94	A 0.01 94	A 0. 94
37	A 0. 28	A 0.01 28	A 0. 28	A 0. 28	A 0.02 28	A 0.01 28	A 0. 28	A 0. 28
38	A 0.01 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0.02 33	A 0.02 33	A 0.01 33	A 0. 33
39	A 0.02 32	A 0.02 32	A 0.01 32	A 0.01 32	A 0.02 32	A 0. 32	A 0.01 32	A 0.02 32
40	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0.02 32	A 0.02 32	A 0. 32	A 0.02 32
41	A 0.01 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0.02 32
42	A 0. 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0.02 31

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Table 45 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
43	A 0. 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
44	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0.02 32
45	A 0. 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
46	A 0.01 30	A 0.01 30	A 0.01 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30
47	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0.01 32	A 0.02 32	A 0. 32	A 0.02 32
48	A 0.01 82	A 0.01 82	A 0.01 82	A 0.01 82	A 0.02 82	A 0. 82	A 0. 82	A 0. 82
49	A 0. 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0.02 31	A 0. 31	A 0. 31
50	A 0.01 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0.02 29	A 0. 29	A 0.01 29	A 0. 29
51	A 0.01 63	A 0.01 63	A 0.01 63	A 0.01 63	A 0.02 63	A 0.02 63	A 0.01 63	A 0.02 63
52	A 0.01 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0.01 63	A 0.02 63	A 0. 63	A 0.02 63
53	A 0.01 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0. 50	A 0. 50	A 0.01 50	A 0. 50
54	A 0.01 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0. 38	A 0.02 38	A 0.01 38	A 0.02 38
55	A 0.02 62	A 0.03 62	A 0.02 62	A 0.02 62	A 0.03 62	A 0.02 62	A 0.01 62	A 0.02 62
56	A 0. 21	A 0.01 21	A 0. 21	A 0. 21	A 0.02 21	A 0.02 21	A 0. 21	A 0. 21
57	A 0.01 34	A 0.01 34	A 0.01 34	A 0.02 33	A 0.01 33	A 0.02 34	A 0.01 33	A 0. 34
58	A 0.01 59	A 0.02 59	A 0.01 59	A 0.01 59	A 0.01 59	A 0. 59	A 0. 59	A 0. 59
59	A 0.01 55	A 0.01 55	A 0.01 55	A 0.02 52	A 0.01 52	A 0.02 55	A 0.01 55	A 0.02 55
60	A 0.01 74	A 0.02 74	A 0.01 74	A 0.01 74	A 0. 74	A 0.02 74	A 0.01 74	A 0.02 74
61	A 0. 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0.02 21	A 0. 21	A 0. 21
62	A 0.01 93	A 0.01 93	A 0.01 93	A 0.02 95	A 0.02 93	A 0.03 93	A 0.01 95	A 0. 93
63	A 0.01 91	A 0.01 91	A 0. 91	A 0.01 91	A 0.01 93	A 0.02 91	A 0.01 93	A 0. 91
64	A 0.01 31	A 0.01 31	A 0. 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
65	A 0.01 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25
66	A 0.08 17	A 0.1 17	A 0.05 17	A 0.05 17	A 0.03 17	A 0.03 17	A 0.02 17	A 0.03 17
67	A 0.02 38	A 0.02 38	A 0.01 38	A 0.01 38	A 0.01 38	A 0.02 38	A 0.01 38	A 0.02 38
68	A 0.01 37	A 0.02 37	A 0. 37	A 0.01 37	A 0. 37	A 0. 37	A 0. 37	A 0.02 37
69	A 0.01 37	A 0.02 37	A 0. 37	A 0. 37	A 0. 37	A 0.01 37	A 0. 37	A 0. 37
70	A 0.02 44	A 0.04 44	A 0.02 43	A 0.02 43	A 0.02 44	A 0.02 44	A 0.01 44	A 0. 44

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Table 45 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
71	A 0.01 26	A 0.01 26	A 0.01 26	A 0.01 26	A 0.02 26	A 0.02 27	A 0.01 26	A 0. 26
72	C 0.03 76	C 0.04 76	C 0.02 76	C 0.02 76	C 0.02 76	C 0.04 76	C 0.02 76	C 0.03 76
73	C 0.02 81	C 0.03 81	C 0.02 81	C 0.02 81	C 0.03 81	C 0.02 81	C 0.02 81	C 0.03 81
74	C 0.04 116	C 0.04 116	C 0.03 116	C 0.04 116	C 0.03 116	C 0.05 116	C 0.03 116	C 0.05 116
75	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
76	A 0.01 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31
77	C 0.27 232	C 0.16 232	C 0.12 232	C 0.12 232	C 0.12 232	C 0.12 232	C 0.09 232	C 0.14 232
78	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
79	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
80	A 0.01 90	A 0.01 90	A 0. 90	A 0. 90	A 0. 90	A 0.02 90	A 0. 90	A 0.02 90
81	C 0.02 604	C 0.02 604	C 0.02 604	C 0.02 604	C 0.02 604	C 0.03 604	C 0.02 604	C 0.02 604
82	C 0.02 431	C 0.02 431	C 0.01 431	C 0.01 431	C 0.02 431	C 0.02 431	C 0.01 431	C 0.02 431
83	A 0.01 59	A 0.01 59	A 0.01 59	A 0.01 59	A 0. 59	A 0.02 59	A 0.01 59	A 0. 59
84	B 0.01 58	B 0.01 58	B 0. 58	B 0. 58	B 0. 58	B 0. 58	B 0. 58	B 0. 58
85	B 0.01 50	B 0.02 50	B 0.01 50	B 0.02 50	B 0. 50	B 0.02 50	B 0.01 50	B 0. 50
86	B 0.01 385	B 0.02 385	B 0.01 385	B 0.01 385	B 0.02 385	B 0.02 385	B 0. 385	B 0.02 385
87	C 0.02 313	C 0.02 313	C 0.02 313	C 0.01 313	C 0.02 313	C 0.02 313	C 0.01 313	C 0.02 313
88	B 0. 63	B 0.01 63	B 0. 63	B 0. 63	B 0. 63	B 0. 63	B 0. 63	B 0. 63
89	B 0. 59	B 0. 59	B 0. 59	B 0. 59	B 0. 59	B 0. 59	B 0. 59	B 0. 59
90	A 0.01 48	A 0.01 48	A 0.01 48	A 0.01 48	A 0. 48	A 0.01 48	A 0.01 48	A 0. 48
91	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
92	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
93	C 0.06 60	C 0.06 60	C 0.04 60	C 0.05 60	C 0.03 60	C 0.04 60	C 0.03 60	C 0.02 60
94	C 0.04 55	C 0.04 55	C 0.02 55	C 0.02 55	C 0.03 55	C 0.03 55	C 0.04 55	C 0.02 55
95	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
96	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
97	B 0.04 120	B 0.04 120	B 0.03 124	B 0.03 124	B 0.03 124	B 0.03 124	B 0.02 124	B 0.05 124
98	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 45 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
99	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
100	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
101	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
102	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
103	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
104	A 0.05 771	A 0.05 771	A 0.04 771	A 0.04 771	A 0.03 771	A 0.05 771	A 0.03 771	A 0.05 771
105	A 0.07 240	A 0.06 240	A 0.04 240	A 0.04 240	A 0.05 240	A 0.05 240	A 0.03 240	A 0.05 240
106	B 0.08 394	B 0.08 394	B 0.06 394	B 0.06 394	B 0.05 394	B 0.06 394	B 0.02 394	B 0.03 394
107	C 0.02 70	C 0.02 70	C 0.01 69	C 0.01 69	C 0.02 69	C 0. 69	C 0.01 69	C 0.02 69
108	C 0.33 77	C 0.32 77	C 0.27 78	C 0.24 78	C 0.25 78	C 0.28 78	C 0.07 78	C 0.08 78
109	C 0.02 74	C 0.02 74	C 0.01 75	C 0.01 75	C 0.02 75	C 0.01 75	C 0. 75	C 0. 75
110	A 0.01 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42	A 0.02 42
111	B 0.13 84	B 0.12 84	B 0.1 84	B 0.11 84	B 0.11 84	B 0.16 84	B 0.12 84	B 0.22 84
112	B 0.14 2289	B 0.12 2289	B 0.09 2289	B 0.09 2289	B 0.08 2289	B 0.09 2289	B 0.06 2289	B 0.08 2279
113	C 0.16 1473	C 0.17 1473	C 0.16 1533	C 0.18 1533	C 0.16 1533	C 0.22 1533	C 0.14 1533	C 0.17 1533
114	C 0.04 636	C 0.06 636	C 0.05 653	C 0.06 653	C 0.03 653	C 0.08 653	C 0.03 653	C 0.03 653
115	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
116	B 0.15 173	B 0.2 173	B 0.18 173	B 0.2 173	B 0.17 173	B 0.22 173	B 0.09 173	B 0.08 173
117	A 0. 175	A 0.01 175	A 0. 175	A 0.06 175	A 0. 175	A 0.05 175	A 0.03 175	A 0.02 175
118	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
119	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
120	A 0.01 28	A 0.01 28	A 0.03 34	A 0.02 34	A 0.03 34	A 0.03 34	A 0.02 34	A 0.03 34
121	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
122	A 0. 5	A 0.01 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5
123	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
124	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
125	C 0.01 44	C 0.01 44	C 0. 44	C 0.01 46	C 0.01 46	C 0.02 46	C 0.01 44	C 0. 44
126	B 0.01 48	B 0.01 48	B 0.01 48	B 0.01 48	B 0. 48	B 0. 48	B 0.01 48	B 0.02 48

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Table 45 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
127	A 0. 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0.02 16
128	B 0.01 41	B 0.01 41	B 0. 41	B 0. 41	B 0. 41	B 0. 41	B 0.01 41	B 0. 41
129	B 0.01 47	B 0.01 47	B 0. 47	B 0. 47	B 0. 47	B 0.02 47	B 0. 47	B 0. 45
130	A 0. 29	A 0. 29	A 0. 29	A 0.01 29	A 0. 29	A 0.02 29	A 0. 29	A 0.02 29
131	A 0.01 37	A 0.01 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37
132	A 0.01 37	A 0.01 37	A 0.01 37	A 0.01 37	A 0.02 37	A 0.01 37	A 0. 37	A 0. 37
133	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
134	B 0.05 753	B 0.05 753	B 0.05 754	B 0.09 754	B 0.04 754	B 0.09 754	B 0.08 754	B 0.06 754
135	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
136	C 0.05 514	C 0.05 514	C 0.03 504	C 0.04 504	C 0.03 504	C 0.06 504	C 0.03 504	C 0.03 504
137	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
138	B 0.03 88	B 0.03 88	B 0.02 88	B 0.02 88	B 0.02 88	B 0.02 88	B 0.02 88	B 0.02 88
139	C 0.1 555	C 0.1 555	C 0.07 555	C 0.07 555	C 0.07 555	C 0.1 555	C 0.06 555	C 0.08 555

2.44 1_Algebraic_functions\1.3Miscellaneous\1.3.3Expansionproblems

Table 46: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 25	A 0.02 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.01 25	A 0.01 25	A 0.02 25
2	A 0.01 33	A 0.02 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0. 33
3	A 0.04 29	A 0.04 29	A 0.03 29	A 0.03 29	A 0.03 29	A 0.03 29	A 0.02 29	A 0.02 29
4	B 0.01 18	B 0.02 18	B 0.01 18	B 0.01 18	B 0. 18	B 0.01 18	B 0. 18	B 0. 18
5	A 0. 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
6	A 0. 7	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7
7	A 0.01 7	A 0.01 7	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0. 7	A 0.02 7
8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0.02 8

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Table 46 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
9	B	0.	20	B	0.	20	B	0.	20	B	0.	20	B	0.	20	B	0.	20	B	0.	20	B	0.02	20
10	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.	41
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	A	0.02	76	A	0.03	76	A	0.02	76	A	0.03	76	A	0.02	76	A	0.03	76	A	0.02	76	A	0.02	76
13	A	0.01	58	A	0.01	58	A	0.	58	A	0.01	58	A	0.	58	A	0.01	58	A	0.	58	A	0.	58
14	A	0.02	39	A	0.02	39	A	0.01	39	A	0.02	39	A	0.01	39	A	0.02	39	A	0.01	39	A	0.03	39
15	A	0.01	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.02	32
16	A	0.01	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.02	32	A	0.	32	A	0.01	32	A	0.02	32
17	A	0.02	41	A	0.02	56	A	0.02	56	A	0.02	56	A	0.02	56	A	0.02	56	A	0.01	56	A	0.02	56
18	B	0.06	616	B	0.08	616	B	0.06	616	B	0.06	616	B	0.06	616	B	0.06	616	B	0.03	616	B	0.05	616
19	A	0.01	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.01	57	A	0.03	57	A	0.01	57	A	0.02	57
20	A	0.01	21	A	0.02	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.01	21	A	0.	21	A	0.	21
21	A	0.02	24	A	0.02	24	A	0.02	24	A	0.02	24	A	0.02	24	A	0.02	24	A	0.01	24	A	0.	24
22	B	0.1	1095	B	0.08	1095	B	0.06	1095	B	0.06	1095	B	0.06	1095	B	0.08	1095	B	0.06	1095	B	0.06	1095

2.45 1_Algebraic_functions\1.3Miscellaneous\1.3.4Substitutionproblems

Table 47: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.01	34	A	0.01	34	A	0.	34	A	0.	34	A	0.01	34	A	0.01	34	A	0.	34	A	0.02	34
2	A	0.01	26	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.01	26	A	0.	26	A	0.	26
3	A	0.01	26	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.02	26
4	A	0.01	28	A	0.01	28	A	0.	28	A	0.01	28	A	0.	28	A	0.02	28	A	0.	28	A	0.	28
5	A	0.01	23	A	0.01	23	A	0.	23	A	0.01	23	A	0.	23	A	0.02	23	A	0.	23	A	0.	23
6	B	0.	89	B	0.01	89	B	0.	89	B	0.	89	B	0.	89	B	0.	89	B	0.	89	B	0.	89
7	B	0.	67	B	0.01	67	B	0.	67	B	0.	67	B	0.	67	B	0.	67	B	0.	67	B	0.	67

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Table 47 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
8	A 0. 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
9	B 0. 618	B 0.01 618	B 0. 618	B 0. 618	B 0. 618	B 0. 618	B 0. 618	B 0. 618
10	B 0. 1523	B 0.01 1523	B 0. 1523	B 0. 1523	B 0. 1523	B 0. 1523	B 0. 1523	B 0. 1523
11	B 0. 4284	B 0.01 4284	B 0. 4284	B 0. 4284	B 0. 4284	B 0. 4284	B 0. 4284	B 0.02 4284
12	B 0.07 230	B 0.07 230	B 0.06 230	B 0.07 230	B 0.07 230	B 0.09 230	B 0.06 230	B 0.12 230
13	B 0.03 177	B 0.03 177	B 0.02 177	B 0.02 177	B 0.02 177	B 0.02 177	B 0.01 177	B 0.02 177
14	A 0.01 33	A 0.01 33	A 0. 33	A 0.01 33	A 0. 33	A 0.02 33	A 0. 33	A 0.02 33
15	B 0. 87	B 0.01 87	B 0. 87	B 0. 87	B 0. 87	B 0. 87	B 0. 87	B 0. 87
16	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
17	A 0.01 18	A 0.01 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0.01 18	A 0.01 18	A 0.02 18
18	C 0. 71	C 0. 71	C 0. 72	C 0. 72	C 0. 72	C 0. 72	C 0. 72	C 0. 72
19	C 0.02 144	C 0.02 144	C 0.01 155	C 0.01 155	C 0.01 155	C 0.01 155	C 0.01 155	C 0. 155
20	C 0.02 217	C 0.02 217	C 0.01 226	C 0.01 226	C 0.01 226	C 0.01 226	C 0. 226	C 0. 226
21	C 0.03 139	C 0.03 139	C 0.02 151	C 0.02 151	C 0.02 151	C 0.03 151	C 0.01 151	C 0.02 151
22	A 0.01 41	A 0.01 41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	B 0.03 460	A 0.03 291	A 0.02 291	A 0.02 291	A 0.02 291	A 0.02 291	A 0.01 291	A 0.03 291
24	A 0.02 161	A 0.02 161	A 0.01 161	A 0.01 161	A 0.01 161	A 0.01 161	A 0. 161	A 0. 161
25	A 0.03 312	A 0.03 312	A 0.02 312	A 0.02 312	A 0.02 312	A 0.02 312	A 0.01 312	A 0.02 312
26	A 0.04 92	A 0.05 92	A 0.04 92	A 0.04 92	A 0.04 92	A 0.04 92	A 0.02 92	A 0.03 92
27	A 0.02 65	A 0.01 65	A 0.01 65	A 0.01 65	A 0. 65	A 0.01 65	A 0. 65	A 0. 65
28	A 0.01 70	A 0.02 70	A 0.01 70	A 0.01 70	A 0.01 70	A 0.01 70	A 0. 70	A 0. 70
29	A 0.02 32	A 0.02 32	A 0.01 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
30	A 0.01 69	A 0.02 69	A 0.01 69	A 0.01 69	A 0.02 69	A 0.01 69	A 0.01 69	A 0.02 69
31	A 0. 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0.02 12
32	B 0.06 1059	B 0.07 1059	B 0.06 1059	B 0.06 1059	B 0.06 1059	B 0.06 1059	B 0.04 1059	B 0.05 1059
33	A 0.01 27	A 0.01 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.01 27	A 0.01 27	A 0.02 27
34	A 0.02 52	A 0.04 52	A 0.02 52	A 0.02 52	A 0.02 52	A 0.01 52	A 0.02 52	A 0.03 52
35	A 0.02 58	A 0.02 58	A 0.02 58	A 0.02 58	A 0.01 58	A 0.03 58	A 0.02 58	A 0.02 58

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Table 47 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
36	A 0.03 56	A 0.03 56	A 0.03 56	A 0.03 56	A 0.02 56	A 0.03 56	A 0.02 56	A 0.03 56
37	B 0. 93	B 0.01 93	B 0. 93	B 0.02 93	B 0. 93	B 0.01 93	B 0.01 93	B 0. 93
38	A 0.01 14	A 0.01 14	A 0. 14	A 0.01 14	A 0. 14	A 0.01 14	A 0. 14	A 0.02 14
39	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0.01 90	A 0. 90	A 0.02 90
40	A 0.01 38	A 0.01 38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	B 0.05 443	B 0.06 443	B 0.05 443	B 0.05 443	B 0.05 443	B 0.06 443	B 0.03 443	B 0.05 443
42	B 0.01 45	B 0.01 45	B 0. 45	B 0.01 45	B 0.02 45	B 0.01 45	B 0. 45	B 0. 43
43	A 0.02 79	A 0.02 79	A 0.01 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.01 79	A 0.02 79
44	A 0.02 30	A 0.02 30	A 0.02 30	A 0.01 30	A 0.02 30	A 0.02 30	A 0.01 30	A 0.02 30
45	B 0.04 85	B 0.04 85	B 0.03 85	B 0.03 85	B 0.03 85	B 0.03 85	B 0.02 85	B 0.05 85
46	A 0. 39	A 0.01 39	A 0. 39	A 0.01 39	A 0. 39	A 0. 39	A 0. 39	A 0. 39
47	A 0.01 58	A 0.01 58	A 0. 58	A 0.01 60	A 0.02 58	A 0.01 60	A 0.01 60	A 0.02 60
48	B 0.03 106	B 0.03 106	B 0.02 103	B 0.02 106	B 0.02 106	B 0.02 106	B 0.02 103	B 0.03 103
49	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
50	A 0.02 40	A 0.03 40	A 0.02 40	A 0.02 40	A 0.03 40	A 0.02 40	A 0.02 40	A 0.03 40
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	B 0.06 302	B 0.06 302	B 0.04 302	B 0.04 302	B 0.03 302	B 0.05 302	B 0.03 302	B 0.05 302
54	A 0.05 655	A 0.05 655	A 0.04 655	A 0.03 655	A 0.03 655	A 0.04 655	A 0.02 655	A 0.05 655
55	A 0.02 32	A 0.02 32	B 0.02 46	B 0.02 46	B 0.02 46	B 0.03 46	B 0.02 46	B 0.02 46
56	A 0.03 118	A 0.03 118	A 0.02 118	A 0.02 118	A 0.03 118	A 0.03 118	A 0.02 118	A 0.02 118
57	B 0.12 963	B 0.07 963	B 0.06 963	B 0.06 963	B 0.04 963	B 0.06 963	B 0.04 963	B 0.06 963
58	B 0.05 963	B 0.04 963	B 0.03 963	B 0.03 963	B 0.05 963	B 0.05 963	B 0.02 963	B 0.05 963
59	B 0.05 1039	B 0.05 1039	B 0.03 1039	B 0.04 1039	B 0.05 1039	B 0.05 1039	B 0.03 1039	B 0.05 1039
60	A 0. 392	A 0.01 392	A 0. 392	A 0. 392	A 0. 392	A 0. 392	A 0. 392	A 0. 392
61	A 0. 84	A 0.01 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84
62	B 0.21 4890	B 0.17 4890	B 0.12 4890	B 0.11 4890	B 0.11 4890	B 0.12 4890	B 0.09 4890	B 0.12 4890
63	B 0.05 1056	B 0.06 1056	B 0.03 1056	B 0.03 1056	B 0.05 1056	B 0.05 1056	B 0.03 1056	B 0.03 1056

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Table 47 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
64	A 0. 34	A 0.01 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34
65	A 0. 138	A 0.01 138	A 0. 138	A 0. 138	A 0. 138	A 0. 138	A 0. 138	A 0. 138
66	C 0.03 49	C 0.03 49	C 0.02 51	C 0.02 51	C 0.02 51	C 0.03 51	C 0.01 51	C 0. 51
67	A 0. 28	A 0.01 28	A 0. 28	A 0. 28	A 0. 28	A 0.02 28	A 0. 28	A 0.02 28
68	A 0. 267	A 0.01 267	A 0. 267	A 0. 267	A 0. 267	A 0. 267	A 0. 267	A 0. 267
69	B 0.09 2601	B 0.07 2601	B 0.05 2601	B 0.05 2601	B 0.05 2601	B 0.05 2601	B 0.04 2601	B 0.06 2601
70	B 0.04 2582	B 0.04 2582	B 0.03 2582	B 0.02 2582	B 0.03 2582	B 0.03 2582	B 0.02 2582	B 0.02 2582
71	C 0.01 49	C 0.01 49	C 0.01 39	C 0.01 39	C 0.02 39	C 0.01 39	C 0.01 39	C 0. 39
72	C 0.8 1182	C 0.15 1182	C 0.08 1182	C 0.09 1182	C 0.09 1182	C 0.47 1182	C 0.1 1182	C 0.12 1182
73	C 0.04 5427	C 0.13 5427	C 0.03 5427	C 0.03 5427	C 0.08 5427	C 0.09 5427	C 0.02 5427	C 0.03 5427

2.46 1_Algebraic_functions\1.3Miscellaneous\1.3.5Piecewiseconstantextraction

Table 48: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0. 36	A 0.01 36	A 0. 36	A 0.01 36	A 0.02 36	A 0. 36	A 0. 36	A 0. 36
2	A 0. 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0.02 27	A 0. 27	A 0. 27
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	A 0.06 69	A 0.05 69	A 0.04 69	A 0.04 69	A 0.03 69	A 0.05 69	A 0.03 69	A 0.06 69
6	A 0.02 85	A 0.02 85	A 0.02 85	A 0.02 85	A 0.02 85	A 0.02 85	A 0.02 85	A 0.03 85
7	B 0.11 526	B 0.09 526	B 0.08 526	B 0.07 526	B 0.06 526	B 0.09 526	B 0.06 526	B 0.09 526
8	A 0. 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
9	A 0.01 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0. 42	A 0.02 42	A 0.01 42	A 0.02 42
10	A 0. 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0.02 26	A 0. 26	A 0. 26
11	A 0.05 236	A 0.05 236	A 0.04 236	A 0.04 236	A 0.03 236	A 0.05 236	A 0.03 236	A 0.05 236

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Table 48 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
12	A 0.03 221	A 0.03 221	A 0.02 221	A 0.02 221	A 0.02 221	A 0.03 221	A 0.02 221	A 0.03 221
13	A 0.02 215	A 0.02 215	A 0.02 215	A 0.01 215	A 0.02 215	A 0.02 215	A 0.01 215	A 0.02 215
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.47 1_Algebraic_functions\1.3Miscellaneous\1.3.6Derivativeintegrationproblems

Table 49: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 49 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.48 2_Exponentials\2.1u(F^(c(a+bx)))^n

Table 50: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	A 0.01 260	A 0.02 260	A 0.01 260	A 0.01 260	A 0.02 260	A 0.02 260	A 0.01 260	A 0.02 260
3	A 0.04 97	A 0.04 97	A 0.04 97	A 0.03 97	A 0.03 97	A 0.05 97	A 0.02 97	A 0.05 97
4	A 0.01 91	A 0.02 91	A 0.01 91	A 0.01 91	A 0.02 91	A 0.02 91	A 0.01 91	A 0. 91
5	A 0.06 97	A 0.06 97	A 0.05 97	A 0.05 97	A 0.05 97	A 0.05 97	A 0.03 97	A 0.08 97
6	A 0.08 151	A 0.08 151	A 0.08 151	A 0.07 151	A 0.06 151	A 0.08 151	A 0.05 151	A 0.14 151
7	A 0.14 235	A 0.15 235	A 0.18 235	A 0.13 235	A 0.12 235	A 0.12 235	A 0.09 235	A 0.26 235
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	A 0.04 96	A 0.05 96	A 0.04 96	A 0.04 96	A 0.02 96	A 0.05 96	A 0.03 96	A 0.03 96
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0.01 113	A 0.01 113	A 0.01 113	A 0.01 113	A 0. 113	A 0.03 113	A 0.01 113	A 0. 113
14	A 0.07 129	A 0.07 129	A 0.06 129	A 0.06 129	A 0.05 129	A 0.06 129	A 0.04 129	A 0.06 129
15	A 0.09 275	A 0.1 275	A 0.08 275	A 0.08 275	A 0.08 275	A 0.07 275	A 0.06 275	A 0.09 275
16	A 0.03 406	A 0.02 406	A 0.02 406	A 0.02 406	A 0.02 406	A 0.02 406	A 0.01 406	A 0.03 406
17	C 0.23 136	C 0.25 136	C 0.21 136	C 0.22 136	C 0.19 136	C 0.25 136	C 0.17 136	C 0.48 136
18	A 0. 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0.01 27	A 0. 27	A 0. 27
19	B 0.06 57	B 0.06 57	B 0.04 57	B 0.04 57	B 0.05 57	F 0 0	F 0 0	F 0 0

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Table 50 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
20	B 0.06 190	B 0.07 190	B 0.05 190	B 0.05 190	B 0.05 190	F 0 0	F 0 0	F 0 0

2.49 $2_Exponentials\2.2(c+dx)^m(F^{(g(e+fx))})^n(a+b(F^{(g(e+fx))})^n)^p$

Table 51: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	A 0. 35	A 0.01 35	A 0. 35	A 0.01 35	A 0. 35	A 0.02 35	A 0.01 35	A 0. 35
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	A 0. 64	A 0.01 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	A 0. 74	A 0.01 74	A 0. 74	A 0.01 74	A 0.01 74	A 0.02 74	A 0.01 74	A 0. 74
7	A 0.1 385	A 0.1 385	A 0.09 385	A 0.1 385	A 0.09 385	A 0.12 385	A 0.06 385	A 0.16 385
8	A 0.02 31	A 0.02 31	A 0.02 31	A 0.02 31	A 0.02 31	A 0.01 31	A 0.01 31	A 0.02 31
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	B 0.14 2495	B 0.12 2495	B 0.11 2495	B 0.12 2495	F 0 0	F 0 0	F 0 0	F 0 0
11	B 0.12 1341	B 0.12 1341	B 0.1 1341	B 0.1 1341	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.02 134	A 0.02 134	A 0.01 134	A 0.01 134	A 0.02 134	A 0.03 134	A 0.02 134	A 0.02 134
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	B 0.05 187	B 0.05 187	B 0.03 187	B 0.03 187	B 0.03 187	B 0.04 187	B 0.02 187	B 0.05 187
15	B 0.04 225	B 0.04 225	B 0.03 225	B 0.03 225	B 0.03 225	B 0.04 225	B 0.02 225	B 0.05 225
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	A 0.03 127	A 0.04 127	A 0.03 127	A 0.03 127	A 0.03 127	A 0.03 127	A 0.02 127	A 0.08 139
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.50 $2_Exponentials\2.3Exponentialfunctions$

Table 52: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
2	A	0.	20	A	0.01	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
3	A	0.	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
4	A	0.01	26	A	0.01	26	A	0.	26	A	0.01	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26
5	A	0.03	62	A	0.04	62	A	0.03	62	A	0.03	62	A	0.03	62	A	0.01	36	A	0.01	36	A	0.03	36
6	B	0.14	171	B	0.12	171	B	0.08	171	B	0.08	171	B	0.08	171	B	0.09	171	B	0.07	171	B	0.09	171
7	A	0.03	76	A	0.04	76	A	0.02	76	A	0.02	76	A	0.03	76	A	0.03	76	A	0.02	76	A	0.05	76
8	A	0.01	51	A	0.02	51	A	0.01	51	A	0.01	51	A	0.02	51	A	0.	51	A	0.01	51	A	0.	51
9	B	0.04	53	B	0.04	53	B	0.04	53	B	0.04	53	B	0.03	53	B	0.05	53	B	0.03	53	B	0.06	53
10	A	0.07	94	A	0.07	94	A	0.06	94	A	0.06	94	A	0.06	94	A	0.08	94	A	0.05	94	A	0.12	94
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	B	0.09	140	B	0.05	140	B	0.04	130	B	0.04	130	B	0.05	130	B	0.03	130	B	0.03	130	B	0.06	130
13	A	0.02	76	A	0.02	76	A	0.01	76	A	0.01	76	A	0.02	76	A	0.02	76	A	0.01	76	A	0.02	76
14	A	0.01	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.02	40	A	0.	40	A	0.01	40	A	0.	40
15	A	0.02	16	A	0.02	16	A	0.01	16	A	0.01	16	A	0.02	16	A	0.02	16	A	0.01	16	A	0.02	16
16	A	0.17	164	A	0.12	164	A	0.1	164	A	0.11	164	A	0.09	164	A	0.11	164	A	0.15	164	A	0.08	164
17	A	0.04	120	A	0.05	120	A	0.04	120	A	0.04	120	A	0.03	120	A	0.05	120	A	0.04	120	A	0.06	120
18	A	0.01	28	A	0.01	28	A	0.01	28	A	0.01	28	A	0.	28	A	0.	28	A	0.	28	A	0.02	28
19	B	0.02	41	B	0.03	41	B	0.02	41	B	0.02	41	B	0.02	41	B	0.03	41	B	0.02	41	B	0.03	41
20	B	0.06	141	B	0.06	141	B	0.05	141	B	0.05	141	B	0.05	141	B	0.05	141	B	0.04	141	B	0.05	141
21	B	0.02	78	B	0.02	78	B	0.02	78	B	0.02	78	B	0.02	78	B	0.02	78	B	0.01	78	B	0.03	78
22	B	0.06	136	B	0.06	136	B	0.05	143	B	0.05	143	B	0.05	143	B	0.05	143	B	0.04	143	B	0.06	143
23	A	0.03	57	A	0.03	57	A	0.02	57	A	0.02	57	A	0.03	57	A	0.02	57	A	0.02	57	A	0.03	57
24	A	0.02	15	A	0.02	15	A	0.02	15	A	0.02	15	A	0.02	15	A	0.02	15	A	0.01	15	A	0.02	15
25	A	0.02	73	A	0.02	73	A	0.02	73	A	0.01	73	A	0.02	73	A	0.02	73	A	0.01	73	A	0.02	73
26	B	0.04	101	B	0.05	101	B	0.04	101	B	0.04	101	B	0.03	101	B	0.03	101	B	0.03	101	B	0.05	101
27	A	0.02	16	A	0.02	16	A	0.02	16	A	0.02	16	A	0.02	16	A	0.02	16	A	0.01	16	A	0.02	16

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Table 52 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
28	A	0.1	133	A	0.07	133	A	0.06	133	A	0.06	133	A	0.05	133	A	0.06	133	A	0.05	133	A	0.08	133
29	A	0.04	58	A	0.04	58	A	0.03	58	A	0.03	58	A	0.03	58	A	0.05	58	A	0.03	58	A	0.05	58
30	A	0.05	80	A	0.06	80	A	0.05	80	A	0.04	80	A	0.03	80	A	0.06	80	A	0.04	80	A	0.06	80
31	A	0.09	146	A	0.09	146	A	0.08	146	A	0.07	146	A	0.08	146	A	0.09	146	A	0.07	146	A	0.08	146
32	B	0.03	41	B	0.03	41	B	0.02	41	B	0.02	41	B	0.03	41	B	0.02	41	B	0.02	41	B	0.02	41
33	A	0.03	75	A	0.04	75	A	0.03	75	A	0.03	75	A	0.02	75	A	0.03	75	A	0.02	75	A	0.03	75
34	A	0.08	32	A	0.08	32	A	0.08	32	A	0.07	32	A	0.08	32	A	0.09	32	A	0.07	32	A	0.16	32
35	A	0.08	193	A	0.07	193	A	0.06	193	A	0.06	193	A	0.06	193	A	0.06	193	A	0.04	193	A	0.08	193
36	A	0.05	140	A	0.05	140	A	0.04	140	A	0.04	140	A	0.04	140	A	0.05	140	A	0.04	140	A	0.06	140
37	A	0.04	66	A	0.05	66	A	0.04	66	A	0.04	66	A	0.04	66	A	0.05	66	A	0.03	66	A	0.05	66
38	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
40	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
41	A	0.	29	A	0.01	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
42	A	0.07	517	A	0.06	517	A	0.06	517	A	0.05	517	A	0.05	517	A	0.06	517	A	0.04	517	A	0.08	517
43	A	0.04	227	A	0.04	227	A	0.04	227	A	0.03	227	A	0.03	227	A	0.03	227	A	0.03	227	A	0.06	227
44	A	0.04	80	A	0.05	80	A	0.04	80	A	0.04	80	A	0.03	80	A	0.03	80	A	0.03	80	A	0.05	80
45	A	0.05	226	A	0.05	226	A	0.04	226	A	0.04	226	A	0.05	226	A	0.05	226	A	0.03	226	A	0.08	226
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
47	A	0.09	343	A	0.1	343	A	0.08	343	A	0.08	343	A	0.07	343	A	0.09	343	A	0.06	343	A	0.12	343
48	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
49	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	B	0.1	270	B	0.1	270	B	0.09	270	B	0.08	270	B	0.08	270	B	0.08	270	B	0.06	270	B	0.11	270
52	A	0.06	121	A	0.06	121	A	0.05	121	A	0.05	121	A	0.05	121	A	0.05	121	A	0.04	121	A	0.06	121
53	A	0.2	240	A	0.19	240	A	0.17	240	A	0.16	240	A	0.16	240	A	0.19	240	A	0.12	240	A	0.52	240
54	B	0.03	584	B	0.04	584	B	0.03	584	B	0.03	584	B	0.03	584	B	0.03	584	B	0.02	584	B	0.05	584
55	B	0.02	200	B	0.02	200	B	0.02	200	B	0.02	200	B	0.02	200	B	0.02	200	B	0.01	200	B	0.02	200

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Table 52 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	A 0.01 48	A 0.01 48	A 0.01 48	A 0.01 48	A 0. 48	A 0.02 48	A 0. 48	A 0.02 48
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	B 0.05 279	B 0.05 279	B 0.04 279	B 0.04 279	B 0.05 279	B 0.05 279	B 0.03 279	B 0.05 279
59	A 0.03 22	A 0.03 22	A 0.02 22	A 0.02 22	A 0.02 22	A 0.03 22	A 0.02 22	A 0.05 22
60	A 0.05 169	A 0.05 169	A 0.05 169	A 0.04 169	A 0.04 169	A 0.03 169	A 0.03 169	A 0.12 169
61	B 0.09 646	B 0.08 646	B 0.08 646	B 0.07 646	B 0.06 646	B 0.08 646	B 0.06 646	B 0.16 646
62	A 0. 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
63	B 0.06 185	B 0.07 185	B 0.06 185	B 0.06 185	B 0.06 185	B 0.06 185	B 0.04 185	B 0.19 185
64	B 0.11 826	B 0.11 826	B 0.1 826	B 0.09 826	B 0.09 826	B 0.12 826	B 0.09 826	B 0.2 826
65	A 0.04 35	A 0.05 35	A 0.04 35	A 0.04 35	A 0.05 35	A 0.05 35	A 0.04 35	A 0.08 35
66	A 0.07 76	A 0.08 76	A 0.07 76	A 0.06 76	A 0.06 76	A 0.08 76	A 0.06 76	A 0.17 76
67	A 0.12 109	A 0.13 109	A 0.11 109	A 0.1 109	A 0.11 109	A 0.14 109	A 0.09 109	A 0.27 109
68	A 0.17 142	A 0.19 142	A 0.18 142	A 0.16 142	A 0.16 142	A 0.19 142	A 0.13 142	A 0.61 142
69	A 0.23 175	A 0.26 175	A 0.24 175	A 0.23 175	A 0.23 175	A 0.27 175	A 0.18 175	A 0.95 175
70	A 0.32 208	A 0.37 208	A 0.35 208	A 0.32 208	A 0.34 208	A 0.39 208	A 0.26 208	A 1.37 208
71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	B 0.18 434	B 0.21 434	B 0.2 434	B 0.19 434	B 0.19 434	B 0.21 434	B 0.14 434	B 0.94 434
76	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
77	A 0.06 26	A 0.07 26	A 0.06 26	A 0.06 26	A 0.06 26	A 0.07 26	A 0.04 26	A 0.17 26
78	A 0.04 77	A 0.04 77	A 0.03 77	A 0.03 77	A 0.03 77	A 0.04 77	A 0.03 77	A 0.06 77
79	A 0.08 60	A 0.09 60	A 0.07 60	A 0.08 60	A 0.08 60	A 0.09 60	A 0.06 60	A 0.2 60
80	A 0.12 97	A 0.12 97	A 0.11 97	A 0.1 97	A 0.11 97	A 0.12 97	A 0.09 97	A 0.34 97
81	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
82	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
83	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 52 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
84	B 0.02 682	B 0.02 682	B 0.01 682	B 0.01 682	B 0.02 682	B 0.01 682	B 0.01 682	B 0.02 682
85	A 0.01 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
86	A 0.01 48	A 0.02 48	A 0.01 48	A 0.01 48	A 0.02 48	A 0.01 48	A 0. 48	A 0. 48
87	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
88	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
89	A 0.01 194	A 0.02 194	A 0.01 194	A 0.01 194	A 0. 194	A 0. 194	A 0.01 194	A 0. 194
90	A 0.01 53	A 0.01 53	A 0. 53	A 0. 53	A 0. 53	A 0.01 53	A 0. 53	A 0.02 53
91	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
92	A 0.02 368	A 0.02 368	A 0.01 368	A 0.01 368	A 0.02 368	A 0. 368	A 0.01 368	A 0.02 368
93	A 0.01 102	A 0.01 102	A 0. 102	A 0. 102	A 0. 102	A 0.01 102	A 0. 102	A 0. 102
94	A 0.01 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0.01 45	A 0. 45	A 0.02 45
95	A 0.01 44	A 0.01 44	A 0.01 44	A 0. 44	A 0.02 44	A 0.01 44	A 0. 44	A 0. 44
96	B 0.03 323	B 0.04 323	B 0.03 323	B 0.03 323	B 0.03 323	B 0.03 323	B 0.02 323	B 0.02 323
97	B 0.04 561	B 0.04 561	B 0.04 561	B 0.04 561	B 0.03 561	B 0.04 561	B 0.02 561	B 0.05 561
98	A 0.02 37	A 0.02 37	A 0.01 37	A 0.02 37	A 0.02 37	A 0.02 37	A 0.01 37	A 0.05 37
99	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.01 54	A 0.03 54
100	B 0.04 49	B 0.05 49	B 0.04 49	B 0.04 49	B 0.03 49	B 0.04 49	B 0.03 49	B 0.06 49
101	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
102	A 0.04 44	A 0.04 44	A 0.02 44	A 0.03 44	A 0.03 22	A 0.02 22	A 0.02 22	A 0.03 22
103	A 0.05 65	A 0.05 65	A 0.04 65	A 0.04 65	A 0.03 65	A 0.04 65	A 0.02 65	A 0.05 65
104	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
105	B 0.13 547	B 0.13 547	B 0.12 547	B 0.12 547	B 0.11 547	B 0.14 547	B 0.1 547	B 0.94 547
106	B 0.24 993	B 0.23 993	B 0.22 993	B 0.22 993	B 0.22 993	B 0.26 993	B 0.2 993	B 11.68 993
107	A 0.03 32	A 0.04 32	A 0.03 32	A 0.02 32	A 0.03 32	A 0.02 32	A 0.02 32	A 0.03 32
108	A 0.03 64	A 0.03 64	A 0.02 64	A 0.02 64	A 0.03 64	A 0.02 64	A 0.01 64	A 0.03 64
109	A 0. 18	A 0.01 18	A 0. 18	A 0.01 18	A 0. 18	A 0.01 18	A 0. 18	A 0. 18
110	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
111	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 52 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
112	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
113	A 0.01 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25
114	C 0.11 1261	C 0.09 1261	C 0.09 1249	C 0.07 1261	C 0.06 867	C 0.06 867	C 0.05 867	F 0 0
115	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
116	A 0.01 64	A 0.01 64	A 0.01 64	A 0.01 64	A 0. 64	A 0.01 64	A 0.01 64	A 0.02 64
117	A 0.01 44	A 0.01 44	A 0.01 44	C 0.01 48	C 0.02 48	C 0.01 48	C 0.01 48	C 0.02 48
118	A 0. 11	A 0.01 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
119	A 0.01 18	A 0.02 18	A 0.01 18	A 0.01 18	A 0.02 18	A 0.01 18	A 0. 18	A 0. 18
120	A 0.01 14	A 0.02 14	A 0.01 14	A 0.01 14	A 0.02 14	A 0.01 14	A 0. 14	A 0. 14
121	A 0. 8	A 0.01 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8	A 0. 8
122	B 0.01 16	B 0.02 16	B 0.01 16	B 0.01 16	B 0.02 16	B 0.02 16	B 0. 16	B 0. 16
123	A 0. 9	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
124	B 0.02 22	B 0.03 22	B 0.02 22	B 0.02 22	B 0.02 22	B 0.03 22	B 0.01 22	B 0.03 22
125	A 0. 48	A 0.01 48	A 0. 48	A 0. 48	A 0. 48	A 0.02 48	A 0. 48	A 0. 48
126	A 0. 9	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
127	A 0.01 46	A 0.01 46	A 0.01 46	A 0.01 46	A 0. 46	A 0.01 46	A 0.01 46	A 0.02 46
128	A 0.01 62	A 0.02 62	A 0.01 62	A 0.01 62	A 0.02 62	A 0.01 62	A 0. 62	A 0. 62
129	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47	A 0.02 47	A 0. 47	A 0. 47
130	A 0. 4	A 0.01 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
131	A 0. 11	A 0.01 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
132	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6
133	A 0.01 25	A 0.02 25	A 0.01 25	A 0.01 25	A 0.01 25	A 0.02 25	A 0. 25	A 0.02 25
134	A 0.02 51	A 0.02 51	A 0.01 51	A 0.01 51	A 0.02 51	A 0. 51	A 0.01 51	A 0.02 51
135	A 0.01 16	A 0.01 16	A 0.01 16	A 0.01 16	A 0. 16	A 0.01 16	A 0. 16	A 0. 16
136	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
137	A 0.02 9	A 0.03 9	A 0.02 9	A 0.02 9	A 0.02 9	A 0.01 9	A 0.01 9	A 0. 9
138	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
139	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 52 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
140	A 0.02 9	A 0.02 9	A 0.01 9	A 0.01 9	A 0.02 9	A 0.01 9	A 0.01 9	A 0.02 9
141	A 0.01 23	A 0.01 23	A 0. 23	A 0. 23	A 0. 23	A 0.01 23	A 0. 23	A 0. 23
142	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
143	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
144	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
145	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
146	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.51 $3_Logarithms\3.1u(a+b\log(c(d(efx)^p)^q))^n$

Table 53: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0. 80	A 0.01 80	A 0. 80	A 0. 80	A 0. 80	A 0. 80	A 0. 80	A 0. 80
8	C 0.27 1300	C 0.28 1300	C 0.23 1300	C 0.22 1300	C 0.22 1300	C 0.27 1300	C 0.19 1300	C 0.42 1300
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 53 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
28	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	C	0.06	197	C	0.06	197	C	0.04	197	C	0.04	197	C	0.03	197	C	0.05	197	C	0.03	197	C	0.03	197
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
33	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
34	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
35	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
36	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
37	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
38	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
40	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
41	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
42	C	0.1	419	C	0.1	419	C	0.08	419	C	0.08	419	F	0	0	F	0	0	F	0	0	F	0	0

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Table 53 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
43	C 0.02 345	C 0.03 345	C 0.02 345	C 0.02 345	C 0.02 345	C 0.02 345	C 0.01 345	C 0.02 345
44	C 0.01 170	C 0.02 170	C 0.01 170	C 0.01 170	C 0.02 170	C 0.01 170	C 0.01 170	C 0.02 170
45	C 0.01 192	C 0.02 192	C 0.01 192	C 0.01 192	C 0.02 192	C 0.01 192	C 0.01 192	C 0.02 192
46	C 0.02 249	C 0.04 249	C 0.02 249	C 0.02 249	C 0.03 249	C 0.02 249	C 0.01 249	C 0.03 249
47	C 0.01 86	C 0.02 86	C 0.01 86	C 0.01 86	C 0.02 86	C 0.01 86	C 0.01 86	C 0. 86
48	C 0.03 153	C 0.04 153	C 0.02 158	C 0.02 158	C 0.02 158	C 0.02 158	C 0.01 158	C 0.02 158
49	C 0.02 154	C 0.02 154	C 0.01 158	C 0.01 158	C 0. 158	C 0.01 158	C 0.01 158	C 0.02 158
50	C 0.01 94	C 0.01 94	C 0.01 94	C 0.01 94	C 0. 94	C 0.01 94	C 0. 94	C 0. 94
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	C 0.01 361	C 0.02 361	C 0.01 361	C 0.01 361	C 0.02 361	C 0.02 361	C 0.01 361	C 0. 361
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	B 0.04 115	B 0.04 115	B 0.03 115	B 0.02 115	B 0.03 115	B 0.02 115	B 0.02 115	B 0.02 115
56	C 0.03 157	C 0.04 157	C 0.02 161	C 0.02 161	C 0.01 161	C 0.03 161	C 0.01 161	C 0. 161

2.52 $3_Logarithms\backslash 3.2\log(e(f(a+bx)^p(c+dx)^q)^r)^s$

Table 54: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 54 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	B 0.01 524	B 0.02 524	B 0.01 524	B 0.01 524	B 0.01 524	B 0. 524	B 0. 524	B 0. 524
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	A 0.01 188	A 0.01 188	A 0.01 188	A 0.01 188	A 0.02 188	A 0.02 188	A 0. 188	A 0. 188
15	B 0. 505	B 0.01 505	B 0.01 505	B 0. 505	B 0. 505	B 0. 505	B 0. 505	B 0. 505
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	C 0.09 450	C 0.1 450	C 0.1 450	C 0.08 450	C 0.1 450	C 0.08 450	C 0.06 450	C 0.23 450
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	C 0.08 594	C 0.09 594	C 0.09 594	C 0.06 634	F 0 0	F 0 0	F 0 0	F 0 0
30	C 0.17 503	C 0.2 503	C 0.32 503	C 0.22 503	C 0.25 503	C 0.26 503	C 0.18 503	C 0.53 503
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 54 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	B 0.03 79	B 0.04 79	B 0.03 79	B 0.02 79	B 0.03 79	B 0.03 79	B 0.01 79	B 0.02 79
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	B 0.02 879	B 0.02 879	B 0.01 879	B 0.01 879	B 0.01 879	B 0.01 879	B 0.01 879	B 0.02 879

2.53 3_Logarithms\3.3Logarithmfunctions

Table 55: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	C 0.09 200	C 0.09 200	C 0.08 200	C 0.08 200	C 0.09 200	C 0.09 200	C 0.07 200	C 0.11 200
2	A 0.02 21	A 0.02 21	A 0.02 21	A 0.02 21	A 0.02 21	A 0.02 21	A 0.01 21	A 0.08 21
3	C 0.06 517	C 0.09 517	C 0.07 517	C 0.06 517	C 0.07 517	C 0.08 517	C 0.04 517	C 0.06 517
4	C 0.12 1725	C 0.14 1725	C 0.12 1725	C 0.1 1725	C 0.12 1725	C 0.12 1725	C 0.1 1725	C 0.16 1725
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	A 0.01 19	A 0.01 19	A 0. 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0.02 19
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	A 0.01 52	A 0.01 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0.01 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
14	A 0. 24	A 0.01 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
15	A 0.01 26	A 0.01 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26	A 0. 26
16	A 0. 9	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
17	A 0. 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36

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Table 55 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	A	0.	15	A	0.01	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
28	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
33	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.	54	A	0.02	54
34	C	0.08	137	C	0.07	137	C	0.06	133	C	0.06	133	C	0.07	133	C	0.08	133	C	0.05	133	C	0.06	133
35	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
36	C	0.01	20	C	0.01	20	C	0.01	20	C	0.	20	C	0.	20	C	0.	20	C	0.	20	C	0.	20
37	C	0.01	24	C	0.01	24	C	0.01	24	C	0.01	24	C	0.01	24	C	0.	24	C	0.	24	C	0.02	24
38	C	0.1	332	C	0.09	332	C	0.09	332	C	0.07	332	F	0	0	F	0	0	F	0	0	F	0	0
39	C	0.09	555	C	0.1	555	C	0.09	555	C	0.08	555	F	0	0	F	0	0	F	0	0	F	0	0
40	A	0.	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
41	C	0.18	241	C	0.15	241	C	0.13	241	C	0.12	241	F	0	0	F	0	0	F	0	0	F	0	0
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
43	C	0.14	232	C	0.12	232	C	0.09	232	C	0.08	256	F	0	0	F	0	0	F	0	0	F	0	0
44	C	0.08	173	C	0.09	173	C	0.08	183	C	0.07	183	C	0.09	183	C	0.1	183	C	0.06	183	C	0.08	183
45	C	0.09	198	C	0.09	198	C	0.09	207	C	0.07	207	C	0.09	207	C	0.1	207	C	0.06	207	C	0.09	207

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Table 55 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
46	C	0.11	183	C	0.12	183	C	0.09	183	C	0.08	183	C	0.09	183	C	0.1	183	C	0.06	183	C	0.08	183
47	C	0.06	196	C	0.08	196	C	0.07	208	C	0.05	208	C	0.06	208	C	0.07	208	C	0.04	208	C	0.08	208
48	C	0.06	194	C	0.08	194	C	0.06	202	C	0.05	202	C	0.06	202	C	0.07	202	C	0.04	202	C	0.06	202
49	A	0.01	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50	A	0.	50
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
52	A	0.01	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.	30	A	0.01	30	A	0.	30	A	0.	30
53	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
56	A	0.04	83	A	0.04	83	A	0.03	83	A	0.03	83	A	0.03	83	A	0.03	83	A	0.02	83	A	0.12	83
57	C	0.17	242	C	0.14	242	C	0.12	242	C	0.1	260	F	0	0	F	0	0	F	0	0	F	0	0
58	C	0.16	582	C	0.16	582	C	0.15	762	C	0.13	762	C	0.16	762	C	0.18	762	C	0.12	762	C	0.2	762
59	A	0.01	38	A	0.01	38	A	0.01	38	A	0.	38	A	0.	38	A	0.01	38	A	0.	38	A	0.02	38
60	C	0.05	114	C	0.04	114	C	0.02	114	C	0.02	114	C	0.03	114	C	0.03	114	C	0.02	114	C	0.03	114
61	C	0.02	65	C	0.02	65	C	0.02	65	C	0.01	65	C	0.01	65	C	0.01	65	C	0.01	65	C	0.02	65
62	C	0.09	919	C	0.11	919	C	0.1	919	C	0.08	993	F	0	0	F	0	0	F	0	0	F	0	0
63	C	0.1	850	C	0.1	850	C	0.09	850	C	0.1	936	F	0	0	F	0	0	F	0	0	F	0	0
64	C	0.1	624	C	0.11	624	C	0.1	624	C	0.08	683	F	0	0	F	0	0	F	0	0	F	0	0
65	C	0.1	831	C	0.1	831	C	0.09	831	C	0.07	921	F	0	0	F	0	0	F	0	0	F	0	0
66	C	0.09	461	C	0.09	461	C	0.08	474	C	0.07	533	F	0	0	F	0	0	F	0	0	F	0	0
67	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 55 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
74	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	C	0.11	278	C	0.11	278	C	0.06	286	C	0.06	286	C	0.04	286	C	0.08	286	C	0.04	286	C	0.05	286
79	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
80	C	1.08	5905	C	1.72	5905	C	1.23	5905	C	1.19	5905	C	1.53	5905	C	1.98	5905	C	1.25	5905	C	3.92	5905
81	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
82	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
83	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
84	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
85	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
89	C	0.01	41	C	0.01	41	C	0.01	41	C	0.01	41	C	0.01	41	C	0.01	41	C	0.	41	C	0.	41
90	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
91	C	0.22	1621	C	0.23	1621	C	0.19	1673	C	0.19	1673	C	0.38	1673	C	0.24	1673	C	0.16	1673	C	0.22	1673
92	C	0.13	870	C	0.17	870	C	0.13	903	C	0.13	903	C	0.14	903	C	0.17	903	C	0.1	903	C	0.16	903
93	C	0.08	315	C	0.08	315	C	0.09	315	C	0.06	345	F	0	0	F	0	0	F	0	0	F	0	0
94	C	0.1	612	C	0.09	261	C	0.11	673	C	0.1	673	C	0.1	673	C	0.08	291	C	0.08	673	C	0.12	673
95	C	0.18	2246	C	0.17	2246	C	0.16	2406	C	0.14	2406	C	0.17	2406	C	0.11	526	C	0.08	526	C	0.19	2406
96	C	0.81	55216	C	0.36	14679	C	0.38	20199	C	0.34	20199	C	0.38	20199	C	0.53	20199	C	0.38	20199	C	0.8	20199
97	C	0.26	764	C	0.26	764	C	0.17	764	C	0.15	764	F	0	0	F	0	0	F	0	0	F	0	0
98	A	0.03	80	A	0.04	80	A	0.03	80	A	0.02	80	A	0.02	80	A	0.03	80	A	0.02	80	A	0.03	80
99	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
100	C	0.02	76	C	0.03	76	C	0.02	76	C	0.02	76	C	0.02	76	C	0.02	76	C	0.01	76	C	0.02	76
101	C	0.01	34	C	0.01	34	C	0.01	34	C	0.01	34	C	0.	34	C	0.	34	C	0.	34	C	0.	34

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Table 55 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
102	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
103	A	0.01	84	A	0.01	84	A	0.01	84	A	0.01	84	A	0.02	84	A	0.	84	A	0.02	84	A	0.02	84
104	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
105	C	0.04	88	C	0.04	88	C	0.03	92	C	0.03	92	C	0.02	92	C	0.02	92	C	0.01	92	C	0.	92
106	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
107	C	0.05	82	C	0.06	82	C	0.04	82	C	0.03	82	C	0.02	82	C	0.03	82	C	0.01	82	C	0.	82
108	C	0.06	118	C	0.06	118	C	0.04	122	C	0.03	122	C	0.02	122	C	0.03	122	C	0.01	122	C	0.02	122
109	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
110	A	0.02	7	A	0.02	7	A	0.01	7	A	0.01	7	C	0.4	211	C	0.44	211	C	0.3	220	C	1.2	207
111	A	0.01	8	A	0.02	8	A	0.01	8	A	0.	8	C	0.03	225	C	0.06	225	C	0.04	225	C	0.03	225
112	C	0.02	134	C	0.03	134	C	0.02	220	C	0.06	220	C	0.01	220	C	0.05	220	C	0.02	220	C	0.02	220
113	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
114	A	0.08	76	A	0.06	76	A	0.04	76	A	0.03	76	A	0.03	76	A	0.03	76	A	0.02	76	A	0.03	76
115	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
116	C	0.03	47	C	0.04	47	C	0.02	47	C	0.02	47	C	0.03	47	C	0.02	47	C	0.01	47	C	0.02	47
117	C	0.18	314	C	0.16	314	C	0.12	314	C	0.11	314	C	0.11	314	C	0.15	314	C	0.09	430	C	0.11	430
118	A	0.02	14	A	0.03	14	A	0.01	14	A	0.01	14	A	0.	14	A	0.01	14	A	0.01	14	A	0.02	14
119	A	0.	23	A	0.01	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
120	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
121	A	0.06	75	A	0.08	75	A	0.05	75	A	0.04	75	A	0.03	75	A	0.04	75	A	0.04	75	A	0.06	75
122	A	0.	19	A	0.01	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
123	A	0.01	168	A	0.01	168	A	0.	168	A	0.01	168	A	0.	168	A	0.	168	A	0.01	168	A	0.02	168
124	A	0.01	12	A	0.02	12	A	0.	12	A	0.01	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
125	A	0.01	38	A	0.01	38	A	0.	38	A	0.01	38	A	0.	38	A	0.	38	A	0.	38	A	0.02	38
126	A	0.	10	A	0.01	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10
127	A	0.01	14	A	0.01	14	A	0.	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
128	A	0.01	22	A	0.02	22	A	0.01	22	A	0.01	22	A	0.	22	A	0.	22	A	0.	22	A	0.	22
129	A	0.	30	A	0.01	30	A	0.	30	A	0.	30	A	0.02	30	A	0.	30	A	0.	30	A	0.	30

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Table 55 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
130	A	0.03	57	A	0.03	57	A	0.02	57	A	0.02	57	A	0.02	57	A	0.02	57	A	0.01	57	A	0.02	57
131	A	0.04	28	A	0.04	28	A	0.01	28	A	0.01	28	A	0.02	28	A	0.01	28	A	0.01	28	A	0.02	28
132	C	0.	46	C	0.01	46	C	0.	46	C	0.01	46	C	0.	46	C	0.	46	C	0.01	46	C	0.	46
133	C	0.09	292	C	0.19	292	C	0.08	292	C	0.07	292	F	0	0	F	0	0	F	0	0	F	0	0
134	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
135	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
136	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.02	26	A	0.	26	A	0.01	26	A	0.02	26
137	A	0.01	22	A	0.02	22	A	0.	22	A	0.01	22	A	0.	22	A	0.	22	A	0.01	22	A	0.	22
138	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
139	C	0.13	468	C	0.13	468	C	0.07	469	C	0.07	469	C	0.07	469	C	0.11	469	C	0.05	469	C	0.09	469

2.54 $4_Trig_functions\backslash 4.1aSine\backslash 4.1.0(asin)^m(btrg)^n$

Table 56: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	27	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
2	A	0.	32	A	0.01	32	A	0.01	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46
3	A	0.01	58	A	0.01	58	A	0.	75	A	0.	75	A	0.	75	A	0.	75	A	0.	75	A	0.	75
4	A	0.05	74	A	0.04	74	A	0.03	74	A	0.02	74	A	0.02	74	A	0.03	74	A	0.02	74	A	0.03	74
5	A	0.04	100	A	0.04	100	A	0.03	100	A	0.03	100	A	0.03	100	A	0.02	100	A	0.02	100	A	0.03	100
6	A	0.04	142	A	0.04	142	A	0.03	142	A	0.02	142	A	0.03	142	A	0.02	142	A	0.02	142	A	0.03	142
7	A	0.05	152	A	0.04	152	A	0.03	152	A	0.03	152	A	0.03	152	A	0.03	152	A	0.02	152	A	0.03	148
8	A	0.04	97	A	0.04	97	A	0.03	97	A	0.02	97	A	0.03	97	A	0.02	97	A	0.02	97	A	0.03	95
9	A	0.04	74	A	0.04	74	A	0.03	74	A	0.03	74	A	0.03	74	A	0.02	74	A	0.02	74	A	0.03	71
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 56 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0. 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0.02 14	A 0. 14	A 0. 14
14	A 0.03 26	A 0.03 26	A 0.02 26	A 0.01 26	A 0. 26	A 0.02 26	A 0. 26	A 0. 26
15	B 0.03 78	B 0.03 78	B 0.02 84	B 0.01 84	B 0. 84	B 0. 84	B 0. 84	B 0.02 84
16	B 0.03 96	B 0.04 96	B 0.02 102	B 0.01 102	B 0. 102	B 0.02 102	B 0. 102	B 0. 102
17	A 0.03 42	A 0.04 42	A 0.02 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
18	A 0.04 108	A 0.04 108	A 0.02 108	A 0.01 108	A 0. 108	A 0.02 108	A 0. 108	A 0. 108
19	A 0.03 22	A 0.04 22	A 0.02 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
20	A 0.03 42	A 0.04 42	A 0.02 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
21	B 0.03 124	B 0.04 124	B 0.02 136	B 0.01 136	B 0. 136	B 0. 136	B 0. 136	B 0. 136
22	A 0.02 58	A 0.03 58	A 0.01 66	A 0.01 58	A 0. 58	A 0.01 58	A 0. 58	A 0. 58
23	A 0.02 39	A 0.02 39	A 0.01 56	A 0.01 39	A 0. 39	A 0.02 39	A 0. 39	A 0. 39
24	A 0.02 52	A 0.02 52	A 0.02 64	A 0.01 64	A 0. 64	A 0.02 64	A 0. 64	A 0. 64
25	A 0.02 21	A 0.02 21	A 0.02 21	A 0.01 21	A 0. 21	A 0.02 21	A 0. 21	A 0. 21
26	A 0. 14	A 0.01 14	A 0.01 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
27	A 0.03 55	A 0.04 55	A 0.03 55	A 0.01 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55
28	A 0.03 76	A 0.04 76	A 0.03 76	A 0.01 76	A 0. 76	A 0. 76	A 0. 76	A 0. 76
29	A 0.02 81	A 0.02 81	A 0.02 84	A 0.01 81	A 0. 81	A 0. 81	A 0. 81	A 0.02 81
30	A 0. 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
31	A 0.03 57	A 0.04 57	A 0.03 57	A 0.01 57	A 0.01 57	A 0. 57	A 0. 57	A 0. 57
32	A 0.03 78	A 0.04 78	A 0.03 78	A 0.01 78	A 0. 78	A 0. 78	A 0. 78	A 0. 78
33	A 0.04 69	A 0.04 69	A 0.03 69	A 0.01 69	A 0. 69	A 0.02 69	A 0. 69	A 0. 69
34	A 0.09 90	A 0.07 90	A 0.02 114	A 0.01 114	A 0. 114	A 0. 114	A 0. 114	A 0. 114
35	A 0.02 22	A 0.02 22	A 0.02 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
36	A 0.04 68	A 0.04 76	A 0.04 76	A 0.01 76	A 0. 76	A 0.02 76	A 0. 76	A 0. 76
37	A 0.02 115	A 0.03 115	A 0.02 114	A 0.01 115	A 0. 115	A 0. 115	A 0. 115	A 0. 115
38	B 0.09 231	B 0.08 231	B 0.06 231	B 0.05 231	B 0.05 231	B 0.06 231	B 0.04 231	B 0.06 231
39	B 0.08 243	B 0.06 243	B 0.09 243	B 0.04 243	B 0.04 243	B 0.06 243	B 0.03 243	B 0.06 243

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Table 56 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
40	B	0.07	254	B	0.06	254	B	0.05	254	B	0.04	254	B	0.05	254	B	0.05	254	B	0.03	254	B	0.05	254
41	B	0.07	400	B	0.07	400	B	0.05	400	B	0.04	400	B	0.05	400	B	0.05	400	B	0.03	400	B	0.05	400
42	A	0.04	73	A	0.04	73	A	0.02	35	A	0.02	73	A	0.02	73	A	0.03	73	A	0.01	73	A	0.02	73
43	A	0.08	283	A	0.07	283	A	0.06	283	A	0.05	283	A	0.05	283	A	0.05	283	A	0.04	283	A	0.06	283
44	A	0.05	257	A	0.05	257	A	0.04	257	A	0.03	257	A	0.03	257	A	0.03	257	A	0.02	257	A	0.03	257
45	A	0.05	241	A	0.05	241	A	0.04	241	A	0.02	241	A	0.03	241	A	0.02	241	A	0.02	241	A	0.02	241
46	B	0.05	427	B	0.05	427	B	0.03	427	B	0.03	427	B	0.03	427	B	0.03	427	B	0.02	427	B	0.02	427
47	B	0.07	380	B	0.07	380	B	0.06	380	B	0.05	380	B	0.05	380	B	0.05	380	B	0.03	380	B	0.06	380
48	B	0.08	391	B	0.08	391	A	0.03	81	B	0.05	391	B	0.05	391	B	0.05	391	B	0.04	391	B	0.05	391
49	B	0.06	217	B	0.06	217	A	0.03	47	B	0.03	217	B	0.04	217	B	0.03	217	B	0.02	217	B	0.03	217
50	B	0.09	416	B	0.09	416	A	0.03	65	B	0.06	416	B	0.05	416	B	0.06	416	B	0.04	416	B	0.06	416
51	B	0.11	635	B	0.11	635	B	0.09	635	B	0.08	635	B	0.08	635	B	0.09	635	B	0.06	635	B	0.11	635
52	B	0.08	368	B	0.08	368	A	0.04	110	B	0.04	368	B	0.05	368	B	0.05	368	B	0.03	368	B	0.03	368
53	A	0.15	50	A	0.13	50	A	0.11	50	A	0.22	50	A	0.08	50	A	0.23	50	A	0.17	50	A	0.06	50
54	A	0.24	215	A	0.22	217	A	0.22	215	A	0.2	217	A	0.22	217	A	0.22	215	A	0.15	215	A	0.12	215
55	A	0.11	38	A	0.1	38	A	0.08	38	A	0.06	38	A	0.06	38	A	0.07	38	A	0.04	38	A	0.06	38
56	B	0.24	532	B	0.22	540	B	0.2	532	B	0.2	539	B	0.2	540	B	0.22	532	B	0.16	540	B	0.17	532
57	C	0.21	510	C	0.2	518	C	0.19	510	C	0.2	518	C	0.17	518	C	0.23	510	C	0.14	510	C	0.09	510
58	C	0.18	532	C	0.17	540	C	0.16	532	C	0.13	540	C	0.13	540	C	0.17	532	C	0.1	532	C	0.09	532
59	A	0.17	188	A	0.16	191	A	0.16	188	A	0.14	190	A	0.13	191	A	0.14	189	A	0.1	188	A	0.14	188
60	A	0.1	38	A	0.1	38	A	0.08	38	A	0.06	38	A	0.07	38	A	0.06	38	A	0.04	38	A	0.06	38
61	C	0.12	296	C	0.12	302	C	0.11	292	C	0.11	298	C	0.1	298	C	0.11	292	C	0.08	302	C	0.09	302
62	C	0.21	1934	C	0.21	1966	C	0.2	4163	C	0.19	4227	C	0.2	4227	C	0.22	1922	C	0.14	1922	C	0.16	1922
63	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
64	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
67	A	0.02	25	A	0.02	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25

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Table 56 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
68	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
76	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
77	B 0.2 169	B 0.19 169	A 0.04 45	B 0.12 352	B 0.12 352	B 0.12 352	B 0.09 352	B 0.11 352
78	C 0.15 98	C 0.14 98	C 0.15 80	C 0.09 80	C 0.09 80	C 0.11 80	C 0.06 80	C 0.08 80
79	B 0.34 959	B 0.33 959	A 0.04 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.01 46	A 0.02 46
80	A 0.02 17	A 0.03 17	A 0.03 24	A 0.01 24	A 0.01 24	A 0.02 24	A 0.01 24	A 0. 24
81	A 0.3 56	A 0.32 56	A 0.04 56	A 0.02 56	A 0.02 56	A 0.02 56	A 0.01 56	A 0.02 56
82	A 0.14 36	A 0.14 36	A 0.04 36	A 0.02 36	A 0.02 36	A 0.02 36	A 0.01 36	A 0.02 36
83	A 0.02 17	A 0.03 17	A 0.03 24	A 0.01 24	A 0.01 24	A 0. 24	A 0.01 24	A 0. 24
84	B 0.17 427	B 0.2 427	B 0.08 166	B 0.12 923	B 0.14 925	B 0.14 923	B 0.08 925	B 0.08 923
85	A 0.17 46	A 0.17 46	A 0.04 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.01 46	A 0.02 46
86	A 0.14 36	A 0.14 36	A 0.04 36	A 0.02 36	A 0.02 36	A 0. 36	A 0.01 36	A 0.02 36
87	A 0.17 46	A 0.27 46	A 0.04 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.01 46	A 0. 46
88	C 0.26 333	C 0.34 333	C 0.25 333	C 0.2 333	C 0.2 333	C 0.22 333	C 0.15 333	C 0.16 333
89	C 0.29 623	C 0.41 623	C 0.34 1203	C 0.25 1203	C 0.22 1203	C 0.26 1203	C 0.17 1203	C 0.09 1203
90	A 0.26 62	A 0.34 62	A 0.21 62	A 0.17 62	A 0.16 62	A 0.19 62	A 0.13 62	A 0.14 62
91	B 0.16 497	B 0.15 505	B 0.14 497	B 0.11 505	B 0.11 505	B 0.11 505	B 0.08 497	B 0.06 497
92	C 0.28 572	C 0.27 580	C 0.24 572	C 0.2 580	C 0.2 580	C 0.24 580	C 0.15 572	C 0.2 572
93	C 0.22 546	C 0.21 554	C 0.2 546	C 0.15 554	C 0.14 554	C 0.17 554	C 0.11 546	C 0.14 554
94	C 0.26 516	C 0.25 524	C 0.23 516	C 0.18 526	C 0.17 524	C 0.19 524	C 0.12 518	C 0.09 518
95	A 0.14 40	A 0.12 40	A 0.1 40	A 0.07 40	A 0.06 40	A 0.08 40	A 0.04 40	A 0.06 40

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Table 56 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
96	A 0.27 246	A 0.25 248	A 0.24 246	A 0.19 248	A 0.17 248	A 0.2 248	A 0.14 246	A 0.17 246
97	A 0.16 190	A 0.15 193	A 0.15 190	A 0.1 193	A 0.1 193	A 0.11 193	A 0.07 193	A 0.08 191
98	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
99	C 2.75 1732	C 2.24 1732	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
100	C 0.22 530	C 0.2 514	C 0.18 530	C 0.15 530	C 0.15 514	C 0.19 511	C 0.12 527	C 0.12 530
101	C 0.21 1086	C 0.21 1054	C 0.2 1086	C 0.15 1086	C 0.16 1054	C 0.2 1055	C 0.11 1087	C 0.11 1086
102	C 0.19 169	C 0.18 165	C 0.16 157	C 0.13 157	C 0.12 153	C 0.17 153	C 0.09 157	C 0.11 157
103	C 0.14 536	C 0.14 520	C 0.13 536	C 0.1 536	C 0.11 520	C 0.14 517	C 0.07 536	C 0.08 533
104	C 0.18 185	C 0.18 181	C 0.16 185	C 0.13 185	C 0.13 181	C 0.16 181	C 0.09 185	C 0.09 185
105	C 0.16 538	C 0.15 522	C 0.13 538	C 0.1 538	C 0.11 522	C 0.14 519	C 0.08 522	C 0.08 535
106	C 0.26 220	C 0.24 216	C 0.23 220	C 0.18 220	C 0.18 216	C 0.22 216	C 0.14 216	C 0.14 220
107	C 0.24 562	C 0.24 546	C 0.21 562	C 0.18 562	C 0.18 546	C 0.23 546	C 0.13 562	C 0.09 563
108	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.55 $4_Trig_functions\backslash 4.1aSine\backslash 4.1.10(c+dx)^m(a+b\sin)^n$

Table 57: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.01 308	B 0.02 308	B 0.01 308	B 0. 308	B 0. 308	B 0.02 308	B 0. 308	B 0. 308
2	A 0.04 107	A 0.04 107	A 0.03 107	A 0.01 107	A 0.02 107	A 0.01 107	A 0.02 107	A 0.02 107
3	B 0.04 1030	B 0.05 1030	B 0.03 1030	B 0.03 1030	B 0.01 1030	B 0.01 1030	B 0.01 1030	B 0. 1030
4	B 0.01 587	B 0.02 587	B 0.01 587	B 0. 587	B 0. 587	B 0. 587	B 0. 587	B 0. 587
5	A 0.01 156	A 0.03 156	A 0.02 156	A 0.01 156	A 0. 156	A 0.01 156	A 0. 156	A 0.02 156
6	B 0.05 1023	B 0.06 1023	B 0.04 1165	B 0.03 1165	B 0.02 1165	B 0.02 1165	B 0. 1165	B 0. 1165
7	A 0.01 95	A 0.02 95	A 0.01 120	A 0. 120	A 0. 120	A 0. 120	A 0. 120	A 0. 120
8	A 0.02 240	A 0.02 240	A 0.01 240	A 0.01 240	A 0.02 240	A 0.01 240	A 0. 240	A 0. 240

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Table 57 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
9	B 0.08 541	B 0.09 541	B 0.07 541	B 0.08 541	B 0.06 541	B 0.07 541	B 0.05 541	B 0.06 541
10	A 0.01 39	B 0.02 80	B 0.01 80	B 0.01 80	B 0. 80	B 0. 80	B 0. 80	B 0.02 80
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.03 145	A 0.02 145	A 0.01 145	A 0.01 145	A 0. 145	A 0.01 145	A 0. 145	A 0.02 145
13	A 0.03 150	A 0.04 150	A 0.05 150	A 0.03 150	A 0.02 150	A 0.02 150	A 0.01 150	A 0.03 150
14	A 0.02 65	A 0.02 65	A 0.01 65	A 0.01 65	A 0. 65	A 0. 65	A 0. 65	A 0. 65
15	A 0.01 60	A 0.02 60	A 0.01 60	A 0.01 60	A 0. 60	A 0.02 60	A 0. 60	A 0.02 60
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	C 0.19 353	C 0.15 353	C 0.13 395	C 0.33 395	C 0.11 397	C 0.13 397	C 0.16 395	C 0.16 397
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	B 0.02 241	B 0.03 241	B 0.02 241	B 0.01 241	B 0. 241	B 0. 241	B 0. 241	B 0.02 241
22	A 0.02 96	A 0.03 96	A 0.02 96	A 0.01 96	A 0.01 96	A 0.01 96	A 0.01 96	A 0. 96
23	A 0.04 274	A 0.05 274	A 0.04 274	A 0.02 274	A 0.02 274	A 0.02 274	A 0.01 274	A 0.02 274
24	A 0.04 347	A 0.05 347	A 0.04 347	A 0.02 347	A 0.02 347	A 0. 347	A 0.01 347	A 0.02 347
25	B 0.13 254	B 0.14 254	B 0.12 254	B 0.1 254	B 0.1 254	B 0.09 254	B 0.07 254	B 0.14 254
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	B 1.14 807	B 0.88 807	B 0.74 807	B 0.5 807	B 0.45 807	B 0.47 807	B 0.34 807	B 1.25 807
28	B 0.34 233	B 0.28 233	B 0.26 233	B 0.08 233	B 0.06 233	B 0.06 233	B 0.05 233	B 0.16 233
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	B 0.02 90	B 0.02 90	B 0.01 90	B 0.01 90	B 0. 90	B 0. 90	B 0. 90	B 0. 90
33	A 0.02 177	A 0.03 177	A 0.02 177	A 0.01 177	A 0.02 177	A 0. 177	A 0.01 177	A 0.02 177
34	A 0.03 213	A 0.04 213	A 0.02 213	A 0.01 213	A 0.02 213	A 0.02 213	A 0.01 213	A 0.02 213
35	C 1.06 668	C 0.86 668	C 0.75 668	C 0.36 668	C 0.3 659	C 0.39 668	C 0.26 668	C 0.59 668
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.56 4_Trig_functions\4.1aSine\4.1.1.1(a+bsin)^n

Table 58: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.05 75	A 0.04 75	A 0.03 75	A 0.02 75	A 0.02 75	A 0.02 75	A 0.02 75	A 0.02 75
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	A 0.03 20	A 0.03 20	A 0.02 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0.02 20
5	A 0.06 92	A 0.06 96	A 0.04 96	A 0.01 96	A 0.02 96	A 0. 96	A 0. 96	A 0.02 96
6	B 0.07 272	B 0.07 246	B 0.06 246	B 0.02 246	B 0.02 246	B 0. 246	B 0.01 246	B 0.02 246
7	B 0.07 184	B 0.07 171	B 0.05 171	B 0.01 171	B 0. 171	B 0. 171	B 0. 171	B 0. 171
8	B 0.06 272	B 0.06 246	B 0.05 246	B 0.01 246	B 0.02 246	B 0. 246	B 0.01 246	B 0.02 246
9	A 0.03 20	A 0.04 20	A 0.03 20	A 0.01 20	A 0. 20	A 0.02 20	A 0. 20	A 0. 20
10	B 0.07 272	B 0.07 246	B 0.05 246	B 0.01 246	B 0.02 246	B 0.02 246	B 0.01 246	B 0. 246
11	A 0.07 152	A 0.07 152	A 0.06 152	A 0.02 152	A 0.02 152	A 0. 152	A 0.01 152	A 0.02 152
12	A 0.11 593	A 0.1 593	A 0.1 593	A 0.07 593	A 0.08 593	A 0.08 593	A 0.06 593	A 0.06 593
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.57 4_Trig_functions\4.1aSine\4.1.11(ex)^m(a+bx^n)^psin

Table 59: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.01 359	B 0.02 359	B 0.01 359	B 0. 359	B 0. 359	B 0. 359	B 0. 359	B 0. 359
2	B 0.01 225	B 0.02 225	B 0.01 225	B 0. 225	B 0. 225	B 0. 225	B 0. 225	B 0.02 225
3	A 0.02 117	A 0.03 117	A 0.02 117	A 0.02 117	A 0.02 117	A 0.01 117	A 0.01 117	A 0.02 117
4	A 0.03 74	A 0.04 74	A 0.03 74	A 0.03 74	A 0.02 74	A 0.02 74	A 0.01 74	A 0.02 74

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Table 59 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
5	A 0.03 114	A 0.04 114	A 0.03 114	A 0.02 114	A 0.02 114	A 0.02 114	A 0.01 114	A 0.02 114
6	A 0.03 158	A 0.04 158	A 0.03 158	A 0.02 158	A 0.02 158	A 0.01 158	A 0.01 158	A 0. 158
7	B 0.02 777	B 0.03 777	B 0.02 777	B 0.01 777	B 0.01 777	B 0. 777	B 0.01 777	B 0.02 777
8	A 0.02 202	A 0.03 202	A 0.02 202	A 0.01 202	A 0.01 202	A 0.02 202	A 0.01 202	A 0. 202
9	A 0.02 405	A 0.03 405	A 0.02 405	A 0.01 405	A 0.01 405	A 0.02 405	A 0.01 405	A 0.02 405
10	A 0.01 60	A 0.02 60	A 0.01 60	A 0.01 60	A 0.01 60	A 0. 60	A 0.01 60	A 0. 60
11	B 0.05 494	B 0.04 494	B 0.05 494	B 0.03 494	B 0.02 494	B 0.06 494	B 0.03 494	B 0.03 494
12	A 0.05 482	A 0.06 482	A 0.05 482	A 0.04 482	A 0.03 482	A 0.05 482	A 0.03 482	A 0.05 482
13	B 0.19 3391	B 0.14 3391	B 0.15 3391	B 0.14 3391	B 0.12 3391	B 0.12 3391	B 0.1 3391	B 0.23 3391
14	B 0.01 556	B 0.02 556	B 0.01 556	B 0.01 556	B 0. 556	B 0. 556	B 0. 556	B 0. 556
15	A 0.06 251	A 0.06 251	A 0.05 251	A 0.05 251	A 0.05 251	A 0.03 251	A 0.03 251	A 0.02 251
16	C 0.05 559	C 0.08 561	C 0.04 562	C 0.03 562	C 0.02 562	C 0.02 562	C 0.02 562	C 0.03 562
17	C 0.02 176	C 0.03 176	C 0.01 176	C 0.01 176	C 0.01 176	C 0.02 176	C 0.01 176	C 0.02 176
18	C 0.01 85	C 0.02 85	C 0.01 85	C 0.01 85	C 0.02 85	C 0. 85	C 0.01 85	C 0.02 85
19	C 0.02 88	C 0.04 88	C 0.02 88	C 0.02 88	C 0.03 88	C 0.02 88	C 0.01 88	C 0.02 88
20	C 0.04 116	C 0.04 116	C 0.03 115	C 0.02 115	C 0.02 115	C 0.02 115	C 0.02 115	C 0.03 115
21	C 0.03 248	C 0.04 248	C 0.02 246	C 0.02 246	C 0.02 246	C 0.02 246	C 0.01 246	C 0.03 246
22	C 0.23 2032	C 0.18 2032	C 0.14 2024	C 0.14 2024	C 0.14 2024	C 0.14 2024	C 0.09 2024	C 0.59 2024
23	C 0.1 363	C 0.08 363	C 0.07 361	C 0.06 361	C 0.05 361	C 0.06 361	C 0.04 361	C 0.17 361

2.58 $4_Trig_functions\backslash 4.1a\text{Sine}\backslash 4.1.12(ex)^m(a+b\sin(c+dx^n))^p$

Table 60: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 40	A 0.02 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0. 40
2	A 0. 27	A 0.02 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27

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Table 60 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
3	A 0.01 47	A 0.02 47	A 0.01 47	A 0.01 47	A 0. 47	A 0.02 47	A 0. 47	A 0. 47
4	A 0.01 68	A 0.06 68	A 0.01 68	A 0.01 68	A 0.01 68	A 0. 68	A 0. 68	A 0.02 68
5	A 0.01 83	A 0.02 83	A 0.01 83	A 0.01 83	A 0. 83	A 0.02 83	A 0. 83	A 0. 83
6	A 0.05 48	A 0.06 48	A 0.04 48	A 0.03 48	A 0.02 48	A 0.02 48	A 0.01 48	A 0.02 48
7	C 0.39 162	C 0.31 162	C 0.19 162	C 0.15 162	C 0.12 162	C 0.14 162	C 0.09 162	C 0.37 162
8	A 0.02 99	A 0.02 99	A 0.01 99	A 0.01 99	A 0.02 99	A 0. 99	A 0. 99	A 0. 99
9	A 0.03 78	A 0.04 78	A 0.04 78	A 0.03 78	A 0.02 78	A 0.02 78	A 0.01 78	A 0.02 78
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	A 0.01 42	A 0.02 42	A 0.01 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
24	A 0.02 52	A 0.03 52	A 0.02 52	A 0.01 52	A 0. 52	A 0. 52	A 0.01 52	A 0. 52
25	A 0.02 36	A 0.03 36	A 0.02 36	A 0.01 36	A 0. 36	A 0.02 36	A 0. 36	A 0. 36
26	A 0.01 22	A 0.02 22	A 0.01 22	A 0.01 22	A 0. 22	A 0.01 22	A 0. 22	A 0. 22
27	A 0.02 24	A 0.02 24	A 0.02 24	A 0.01 24	A 0.02 24	A 0. 24	A 0. 24	A 0. 24
28	C 0.14 74	C 0.12 74	C 0.1 82	C 0.11 82	C 0.11 82	C 0.12 82	C 0.08 82	C 0.2 82
29	C 0.18 110	C 0.18 110	C 0.16 136	C 0.21 136	C 0.22 136	C 0.23 136	C 0.17 136	C 0.33 136
30	A 0.02 44	A 0.03 44	A 0.02 44	A 0.01 44	A 0.02 44	A 0. 44	A 0. 44	A 0. 44

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Table 60 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
31	A 0.04 144	A 0.05 144	A 0.03 133	A 0.02 133	A 0.02 133	A 0.02 133	A 0.01 133	A 0. 133
32	B 0.02 586	B 0.03 586	B 0.01 586	B 0.01 586	B 0.02 586	B 0.01 586	B 0.01 586	B 0.02 586
33	B 0.01 120	B 0.02 120	B 0.01 120	B 0. 120	B 0. 120	B 0. 120	B 0.01 120	B 0.02 120
34	A 0.01 42	A 0.02 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
35	A 0.02 365	A 0.03 365	A 0.02 365	A 0.02 365	A 0.02 365	A 0.02 365	A 0.01 365	A 0.02 365
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	B 0.02 1246	B 0.03 1246	B 0.02 1246	B 0.01 1246	B 0.02 1246	B 0. 1246	B 0. 1246	B 0.02 1246
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	B 0.1 2724	B 0.09 2724	B 0.08 2724	B 0.07 2724	B 0.05 2724	B 0.06 2724	B 0.05 2724	B 0.06 2724
42	B 0.02 2704	B 0.03 2704	B 0.02 2704	B 0.01 2704	B 0. 2704	B 0.02 2704	B 0.01 2704	B 0.02 2704
43	C 0.11 1175	C 0.1 1175	C 0.06 1169	C 0.05 1169	C 0.05 1169	C 0.05 1169	C 0.04 1169	C 0.11 1169
44	A 0.01 175	A 0.02 175	A 0.01 175	A 0.01 175	A 0. 175	A 0. 175	A 0.01 175	A 0. 175
45	A 0.01 86	A 0.02 86	A 0.01 86	A 0. 86	A 0. 86	A 0. 86	A 0. 86	A 0.02 86
46	A 0.13 936	A 0.13 936	A 0.12 936	A 0.1 936	A 0.09 936	A 0.09 936	A 0.07 936	A 0.06 936
47	A 0.02 108	A 0.04 108	A 0.02 108	A 0.01 108	A 0.02 108	A 0.01 108	A 0. 108	A 0.02 108
48	A 0.03 452	A 0.04 452	A 0.02 452	A 0.02 452	A 0.02 452	A 0.02 452	A 0.01 452	A 0.02 452
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
56	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 60 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	A 0.04 142	A 0.05 142	A 0.04 142	A 0.02 142	A 0.02 142	A 0.02 142	A 0.01 142	A 0.02 142
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
66	C 0.15 117	C 0.18 117	C 0.13 117	C 0.09 117	F 0 0	F 0 0	F 0 0	F 0 0
67	C 0.15 183	C 0.15 183	C 0.13 183	C 0.09 183	F 0 0	F 0 0	F 0 0	F 0 0
68	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.59 $4_Trig_functions\4.1aSine\4.1.1.2(gcos)^p(a+bsin)^m$

Table 61: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.11 56	A 0.11 56	A 0.03 76	A 0.01 76	A 0.01 76	A 0. 76	A 0. 76	A 0. 76
2	A 0.04 36	A 0.05 36	A 0.03 44	A 0.01 44	A 0. 44	A 0. 44	A 0. 44	A 0. 44
3	A 0.07 129	A 0.07 129	A 0.04 151	A 0.01 151	A 0. 151	A 0.02 151	A 0. 151	A 0. 151
4	A 0.1 63	A 0.1 72	A 0.07 77	A 0.02 77	A 0.01 77	A 0. 77	A 0. 77	A 0.02 77
5	A 0.09 87	A 0.09 95	A 0.06 101	A 0.02 101	A 0. 101	A 0. 101	A 0. 101	A 0. 101
6	B 0.12 128	B 0.12 130	B 0.08 130	B 0.02 130	B 0. 130	B 0. 130	B 0. 130	B 0. 130
7	B 0.12 120	B 0.12 129	B 0.08 140	B 0.02 140	B 0.02 140	B 0. 140	B 0. 140	B 0. 140

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Table 61 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
8	B	0.11	513	B	0.1	513	B	0.06	575	B	0.02	575	B	0.02	575	B	0.	575	B	0.	575	B	0.	575
9	B	0.1	463	B	0.1	463	B	0.06	495	B	0.02	495	B	0.01	495	B	0.	495	B	0.	495	B	0.	495
10	B	0.11	245	B	0.11	263	B	0.08	263	B	0.02	263	B	0.02	263	B	0.02	263	B	0.01	263	B	0.	263
11	B	0.08	141	B	0.09	152	B	0.07	152	B	0.02	152	B	0.02	152	B	0.02	152	B	0.01	152	B	0.	152
12	A	0.03	21	A	0.03	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
13	A	0.1	72	A	0.12	72	A	0.09	72	A	0.04	72	A	0.02	72	A	0.02	72	A	0.01	72	A	0.	72
14	A	0.14	158	A	0.15	158	A	0.09	158	A	0.04	158	A	0.02	158	A	0.02	158	A	0.01	158	A	0.	158
15	A	0.12	19	A	0.12	19	A	0.08	19	A	0.01	19	A	0.	19	A	0.02	19	A	0.	19	A	0.	19
16	A	0.03	21	A	0.03	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
17	A	0.13	130	A	0.14	130	A	0.11	130	A	0.04	130	A	0.02	130	A	0.02	130	A	0.01	130	A	0.02	130
18	A	0.3	252	A	0.28	252	A	0.22	252	A	0.06	252	A	0.02	252	A	0.02	252	A	0.01	252	A	0.	252
19	A	0.06	75	A	0.06	75	A	0.04	75	A	0.03	75	A	0.02	75	A	0.03	75	A	0.02	75	A	0.02	75
20	A	0.05	65	A	0.06	65	A	0.04	65	A	0.02	65	A	0.02	65	A	0.03	65	A	0.02	65	A	0.02	65
21	A	0.08	157	A	0.07	161	A	0.06	161	A	0.04	161	A	0.04	161	A	0.05	161	A	0.02	161	A	0.03	161
22	A	0.06	87	A	0.05	87	A	0.04	87	A	0.03	87	A	0.02	87	A	0.04	87	A	0.02	87	A	0.02	87
23	A	0.05	67	A	0.05	67	A	0.03	67	A	0.02	67	A	0.02	67	A	0.03	67	A	0.01	67	A	0.02	67
24	A	0.05	49	A	0.14	49	A	0.03	49	A	0.03	49	A	0.01	49	A	0.02	49	A	0.02	49	A	0.02	49
25	A	0.06	107	A	0.06	107	A	0.05	107	A	0.04	107	A	0.03	107	A	0.03	107	A	0.02	107	A	0.03	107
26	A	0.05	77	A	0.05	77	A	0.03	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.01	77	A	0.02	77
27	A	0.06	66	A	0.07	102	A	0.05	102	A	0.03	102	A	0.03	102	A	0.03	102	A	0.02	102	A	0.02	102
28	A	0.05	97	A	0.05	97	A	0.04	97	A	0.03	97	A	0.02	97	A	0.01	97	A	0.02	97	A	0.02	97
29	A	0.06	83	A	0.07	117	A	0.05	117	A	0.04	117	A	0.02	117	A	0.03	117	A	0.02	117	A	0.02	117
30	A	0.06	57	A	0.06	57	A	0.04	57	A	0.03	57	A	0.03	57	A	0.03	57	A	0.02	57	A	0.03	57
31	A	0.06	144	A	0.07	144	A	0.05	144	A	0.03	144	A	0.01	144	A	0.02	144	A	0.02	144	A	0.02	144
32	A	0.04	38	A	0.05	38	A	0.03	38	A	0.02	38	A	0.02	38	A	0.02	38	A	0.01	38	A	0.	38
33	A	0.05	54	A	0.06	54	A	0.04	54	A	0.03	54	A	0.03	54	A	0.02	54	A	0.01	54	A	0.02	54
34	A	0.06	212	A	0.07	212	A	0.05	212	A	0.04	212	A	0.03	212	A	0.05	212	A	0.02	212	A	0.03	212
35	A	0.05	47	A	0.05	47	A	0.03	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47

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Table 61 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
36	A	0.01	21	A	0.02	21	A	0.01	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
37	B	0.12	315	B	0.1	315	B	0.08	315	B	0.06	315	B	0.05	315	B	0.06	315	B	0.05	315	B	0.06	315
38	B	0.07	289	B	0.07	289	B	0.05	289	B	0.04	289	B	0.03	289	B	0.03	289	B	0.02	289	B	0.05	289
39	B	0.07	262	B	0.07	262	B	0.05	262	B	0.03	262	B	0.03	262	B	0.03	262	B	0.02	262	B	0.05	262
40	B	0.09	301	B	0.09	301	B	0.07	301	B	0.05	301	B	0.03	301	B	0.05	301	B	0.04	301	B	0.05	301
41	B	0.1	425	B	0.09	425	B	0.07	425	B	0.05	425	B	0.05	425	B	0.05	425	B	0.04	425	B	0.05	425
42	B	0.09	250	B	0.09	250	B	0.05	250	B	0.03	250	B	0.02	250	B	0.03	250	B	0.02	250	B	0.03	250
43	A	0.1	278	A	0.1	278	A	0.05	278	A	0.04	278	A	0.03	278	A	0.05	278	A	0.03	278	A	0.02	278
44	B	0.11	305	B	0.11	305	B	0.06	305	B	0.05	305	B	0.03	305	B	0.05	305	B	0.04	305	B	0.06	305
45	B	0.11	457	B	0.11	457	B	0.06	457	B	0.05	457	B	0.05	457	B	0.05	457	B	0.04	457	B	0.05	457
46	A	0.12	304	A	0.11	304	A	0.06	304	A	0.04	304	A	0.05	304	A	0.03	304	A	0.03	304	A	0.05	304
47	A	0.1	287	A	0.1	287	A	0.05	287	A	0.04	287	A	0.03	287	A	0.03	287	A	0.02	287	A	0.05	287
48	B	0.11	487	B	0.1	487	B	0.05	487	B	0.04	487	B	0.03	487	B	0.03	487	B	0.03	487	B	0.02	487
49	B	0.12	359	B	0.12	359	B	0.06	359	B	0.05	359	B	0.03	359	B	0.05	359	B	0.04	359	B	0.05	359
50	B	0.1	477	B	0.1	477	B	0.06	477	B	0.05	477	B	0.06	477	B	0.06	477	B	0.04	477	B	0.06	477
51	A	0.11	239	A	0.1	239	A	0.05	239	A	0.03	239	A	0.03	239	A	0.03	239	A	0.02	239	A	0.03	239
52	A	0.13	321	A	0.12	321	A	0.07	321	A	0.04	321	A	0.03	321	A	0.05	321	A	0.03	321	A	0.05	321
53	B	0.2	642	B	0.17	642	B	0.13	642	B	0.09	642	B	0.08	642	B	0.08	642	B	0.07	642	B	0.08	642
54	B	0.21	552	B	0.19	552	B	0.12	552	B	0.1	552	B	0.09	552	B	0.1	552	B	0.07	552	B	0.11	552
55	A	0.17	44	A	0.14	44	A	0.11	44	A	0.09	44	A	0.08	44	A	0.08	44	A	0.06	44	A	0.06	44
56	A	0.38	288	A	0.35	288	A	0.33	288	A	0.29	288	A	0.27	288	A	0.3	288	A	0.2	288	A	0.19	288
57	A	0.18	228	A	0.17	228	A	0.15	228	A	0.12	228	A	0.09	228	A	0.12	228	A	0.09	228	A	0.08	228
58	A	0.12	34	A	0.11	34	A	0.08	34	A	0.07	34	A	0.06	34	A	0.05	34	A	0.04	34	A	0.05	34
59	A	0.25	284	A	0.26	283	A	0.23	284	A	0.2	283	A	0.17	283	A	0.21	283	A	0.13	283	A	0.12	283
60	A	0.14	54	A	0.13	54	A	0.11	54	A	0.09	54	A	0.06	54	A	0.08	54	A	0.06	54	A	0.06	54
61	A	0.15	232	A	0.15	229	A	0.17	232	A	0.11	229	A	0.11	229	A	0.13	229	A	0.09	232	A	0.09	232
62	A	0.13	44	A	0.12	44	A	0.1	44	A	0.08	44	A	0.08	44	A	0.07	44	A	0.06	44	A	0.06	44
63	B	0.15	545	B	0.14	545	B	0.12	545	B	0.11	545	B	0.09	545	B	0.11	545	B	0.08	545	B	0.05	545

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Table 61 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
64	A	0.18	80	A	0.17	80	A	0.15	80	A	0.13	80	A	0.11	80	A	0.14	80	A	0.09	80	A	0.08	80
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
67	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
74	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
79	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
80	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
82	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
83	A	0.07	78	A	0.08	78	A	0.04	92	A	0.01	92	A	0.	92	A	0.	92	A	0.	92	A	0.	92
84	A	0.07	72	A	0.08	72	A	0.03	72	A	0.02	72	A	0.02	72	A	0.	72	A	0.	72	A	0.02	72
85	A	0.09	165	A	0.09	167	A	0.05	167	A	0.02	167	A	0.02	167	A	0.	167	A	0.	167	A	0.	167
86	A	0.09	115	A	0.1	115	A	0.05	129	A	0.02	129	A	0.	129	A	0.	129	A	0.	129	A	0.	129
87	A	0.11	154	A	0.12	156	A	0.07	156	A	0.02	156	A	0.	156	A	0.02	156	A	0.	156	A	0.02	156
88	A	0.17	219	A	0.19	228	A	0.06	251	A	0.02	251	A	0.	251	A	0.	251	A	0.	251	A	0.	251
89	A	0.06	21	A	0.06	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
90	A	0.17	497	A	0.18	497	A	0.08	497	A	0.02	497	A	0.01	497	A	0.	497	A	0.	497	A	0.	497
91	B	0.11	1055	B	0.1	685	B	0.07	685	B	0.05	685	B	0.05	685	B	0.05	685	B	0.02	685	B	0.03	685

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Table 61 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
92	B	0.06	142	B	0.07	142	B	0.04	142	B	0.02	142	B	0.02	142	B	0.02	142	B	0.01	142	B	0.02	142
93	B	0.1	525	B	0.1	525	B	0.07	525	B	0.04	525	B	0.01	525	B	0.03	525	B	0.01	525	B	0.02	525
94	A	0.13	305	A	0.13	305	A	0.07	305	A	0.02	305	A	0.02	305	A	0.02	305	A	0.01	305	A	0.	305
95	A	0.12	78	A	0.12	78	A	0.06	78	A	0.02	78	A	0.02	78	A	0.02	78	A	0.01	78	A	0.02	78
96	A	0.18	320	A	0.17	320	A	0.08	320	A	0.02	320	A	0.02	320	A	0.02	320	A	0.01	320	A	0.02	320
97	A	0.26	398	A	0.24	398	A	0.13	398	A	0.04	398	A	0.03	398	A	0.03	398	A	0.02	398	A	0.02	398
98	A	0.1	21	A	0.1	21	A	0.01	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
99	A	0.57	804	A	0.53	804	A	0.28	804	A	0.06	804	A	0.05	804	A	0.03	804	A	0.02	804	A	0.03	804
100	A	0.05	55	A	0.06	55	A	0.03	55	A	0.02	55	A	0.02	55	A	0.02	55	A	0.02	55	A	0.02	55
101	A	0.08	63	A	0.08	63	A	0.05	63	A	0.04	63	A	0.04	63	A	0.03	63	A	0.02	63	A	0.03	63
102	B	0.2	2449	B	0.17	2448	B	0.17	2449	B	0.13	2448	B	0.12	2449	B	0.14	2449	B	0.1	2449	B	0.09	2449
103	B	0.15	943	B	0.15	943	B	0.12	943	B	0.11	943	B	0.11	943	B	0.1	943	B	0.08	943	B	0.08	943
104	A	0.06	162	A	0.06	162	A	0.04	162	A	0.03	162	A	0.02	162	A	0.03	162	A	0.02	162	A	0.02	162
105	B	0.1	717	B	0.07	716	B	0.06	717	B	0.04	716	B	0.04	716	B	0.03	717	B	0.03	717	B	0.05	717
106	A	0.01	21	A	0.02	21	A	0.01	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
107	A	0.09	250	B	0.11	353	B	0.07	353	B	0.07	353	B	0.06	353	B	0.06	353	B	0.04	353	B	0.05	353
108	B	0.11	2273	B	0.11	2273	B	0.09	2273	B	0.08	2277	B	0.07	2277	B	0.08	2277	B	0.07	2277	B	0.09	2277
109	A	0.08	130	A	0.09	130	A	0.06	130	A	0.06	130	A	0.06	130	A	0.06	130	A	0.04	130	A	0.02	130
110	B	0.11	682	B	0.12	949	B	0.09	949	B	0.08	949	B	0.06	949	B	0.09	949	B	0.05	949	B	0.06	949
111	B	0.07	301	B	0.07	301	B	0.04	301	B	0.04	301	B	0.03	301	B	0.03	301	B	0.02	301	B	0.03	301
112	B	0.07	425	B	0.07	425	B	0.04	425	B	0.03	425	B	0.03	425	B	0.03	425	B	0.02	425	B	0.03	425
113	B	0.1	450	B	0.1	450	B	0.04	450	B	0.04	450	B	0.02	450	B	0.04	450	B	0.02	450	B	0.03	450
114	B	0.14	692	B	0.14	692	B	0.06	692	B	0.06	692	B	0.06	692	B	0.06	692	B	0.04	692	B	0.06	692
115	B	0.13	517	B	0.13	517	B	0.05	517	B	0.04	517	B	0.05	517	B	0.05	517	B	0.03	517	B	0.02	517
116	C	0.23	3593	C	0.21	3593	C	0.16	3614	C	0.14	3614	C	0.13	3614	C	0.16	3614	C	0.11	3614	C	0.16	3614
117	C	0.31	20363	C	0.32	20937	C	0.22	20995	C	0.19	20995	C	0.18	20995	C	0.21	20995	C	0.14	20995	C	0.25	20995
118	C	0.46	100128	C	0.91	226989	C	0.8	227165	C	0.72	227165	C	0.76	227165	C	0.97	275170	C	0.79	275170	C	1.89	275170
119	C	0.27	69574	C	0.67	217784	C	0.56	217900	C	0.51	217900	C	0.52	217900	C	0.66	228824	C	0.55	228824	C	1.25	228824

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Table 61 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
120	C	0.52	57102	C	0.9	175362	C	0.8	175412	C	0.72	175412	C	0.72	175412	C	0.88	175412	C	0.68	175412	C	1.61	175412
121	C	0.95	287576	C	7.13	844502	C	7.04	844920	C	6.75	844920	C	7.53	844920	C	8.42	844920	C	9.34	1047250	C	24.06	1047250
122	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
123	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
124	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
125	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
126	A	0.	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
127	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
128	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
129	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
130	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
131	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.60 4_Trig_functions\4.1aSine\4.1.13(d+ex)ⁿsin(a+bx+cx²)ⁿ

Table 62: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.01	204	A	0.02	204	A	0.01	204	A	0.01	204	A	0.02	204	A	0.	204	A	0.	204	A	0.	204
2	A	0.01	100	A	0.02	100	A	0.	100	A	0.	100	A	0.02	100	A	0.01	100	A	0.	100	A	0.	100
3	A	0.01	80	A	0.02	80	A	0.01	80	A	0.	80	A	0.	80	A	0.	80	A	0.	80	A	0.	80
4	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	A	0.02	95	A	0.03	95	A	0.04	95	A	0.02	95	A	0.02	95	A	0.02	95	A	0.01	95	A	0.02	95
6	A	0.02	72	A	0.03	72	A	0.02	72	A	0.01	72	A	0.	72	A	0.02	72	A	0.	72	A	0.02	72
7	A	0.01	399	A	0.02	399	A	0.01	399	A	0.01	399	A	0.01	399	A	0.02	399	A	0.	399	A	0.	399
8	A	0.	82	A	0.02	82	A	0.01	82	A	0.	82	A	0.	82	A	0.02	82	A	0.	82	A	0.	82

2.61 4_Trig_functions\4.1aSine\4.1.1.3(gtan)^p(a+bsin)^m

Table 63: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.09 96	A 0.09 96	A 0.07 96	A 0.01 96	A 0.02 96	A 0.02 96	A 0. 96	A 0. 96
2	A 0.05 136	A 0.06 136	A 0.04 136	A 0.01 136	A 0.01 136	A 0. 136	A 0. 136	A 0. 136
3	A 0.17 135	A 0.18 135	A 0.1 153	A 0.01 153	A 0. 153	A 0. 153	A 0. 153	A 0. 153
4	A 0.05 159	A 0.06 159	A 0.04 159	A 0.01 159	A 0.02 159	A 0. 159	A 0. 159	A 0. 159
5	A 0.06 69	A 0.07 69	A 0.04 69	A 0.01 69	A 0. 69	A 0. 69	A 0. 69	A 0. 69
6	A 0.12 251	A 0.12 251	B 0.11 286	B 0.01 286	B 0. 286	B 0. 286	B 0. 286	B 0. 286
7	A 0.08 117	A 0.08 117	A 0.05 128	A 0.01 128	A 0. 128	A 0. 128	A 0. 128	A 0. 128
8	A 0.08 109	A 0.08 109	A 0.05 109	A 0.01 109	A 0. 109	A 0. 109	A 0.01 109	A 0. 109
9	B 0.14 266	B 0.14 266	B 0.11 307	B 0.01 307	B 0.02 307	B 0.02 307	B 0. 307	B 0. 307
10	A 0.08 125	A 0.08 125	A 0.06 125	A 0.02 125	A 0.01 125	A 0. 125	A 0. 125	A 0. 125
11	A 0.04 111	A 0.05 111	A 0.03 125	A 0. 125	A 0. 125	A 0. 125	A 0. 125	A 0. 125
12	A 0.08 54	A 0.1 54	A 0.09 54	A 0.02 54	A 0.02 54	A 0.02 54	A 0.01 54	A 0. 54
13	A 0.11 180	A 0.14 180	A 0.11 180	A 0.03 180	A 0.02 180	A 0.02 180	A 0.01 180	A 0. 180
14	A 0.09 108	A 0.13 108	A 0.1 108	A 0.03 108	A 0.02 108	A 0.02 108	A 0.01 108	A 0.02 108
15	A 0.22 89	A 0.24 89	A 0.2 89	A 0.03 89	A 0.02 89	A 0.01 89	A 0. 89	A 0. 89
16	A 0.15 126	A 0.15 126	A 0.14 126	A 0.03 126	A 0.02 126	A 0.02 126	A 0.01 126	A 0. 126
17	A 0.18 49	A 0.18 49	A 0.16 49	A 0.03 49	A 0.01 49	A 0. 49	A 0. 49	A 0. 49
18	A 0.24 130	A 0.25 130	A 0.26 130	A 0.04 130	A 0.02 130	A 0. 130	A 0.01 130	A 0. 130
19	A 0.14 158	A 0.12 158	A 0.13 158	A 0.03 158	A 0.01 158	A 0.02 158	A 0.01 158	A 0.02 158
20	A 0.07 55	A 0.07 55	A 0.05 55	A 0.03 55	A 0.03 55	A 0.03 55	A 0.02 55	A 0.03 55
21	A 0.08 196	A 0.08 210	A 0.06 210	A 0.04 210	A 0.04 210	A 0.04 210	A 0.02 210	A 0.03 210
22	A 0.06 103	A 0.06 105	A 0.04 105	A 0.04 105	A 0.02 105	A 0.03 105	A 0.02 105	A 0.02 105
23	A 0.08 144	A 0.08 158	A 0.06 158	A 0.04 158	A 0.03 158	A 0.03 158	A 0.02 158	A 0.03 158
24	A 0.07 212	A 0.08 210	A 0.06 212	A 0.04 210	A 0.04 212	A 0.03 210	A 0.02 212	A 0.03 212
25	B 0.08 363	B 0.08 363	B 0.07 363	B 0.05 363	B 0.05 363	B 0.03 363	B 0.03 363	B 0.03 363

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Table 63 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
26	A 0.08 276	A 0.08 276	A 0.06 276	A 0.04 276	A 0.04 276	A 0.03 276	A 0.02 276	A 0.03 276
27	A 0.08 182	A 0.09 196	A 0.08 196	A 0.04 196	A 0.05 196	A 0.03 196	A 0.02 196	A 0.02 196
28	A 0.02 25	A 0.03 25	A 0.01 25	A 0.01 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
29	A 0.05 136	A 0.06 136	A 0.04 136	A 0.01 136	A 0. 136	A 0. 136	A 0. 136	A 0. 136
30	A 0.07 172	A 0.07 172	A 0.05 172	A 0.01 172	A 0. 172	A 0.01 172	A 0. 172	A 0. 172
31	A 0.07 302	A 0.08 302	A 0.05 302	A 0.01 302	A 0.01 302	A 0.01 302	A 0. 302	A 0.02 302
32	A 0.09 268	A 0.09 268	A 0.05 309	A 0.01 309	A 0. 309	A 0. 309	A 0. 309	A 0.02 309
33	A 0.07 169	A 0.08 169	A 0.04 192	A 0.01 192	A 0. 192	A 0. 192	A 0. 192	A 0. 192
34	A 0.08 264	A 0.09 264	A 0.05 264	A 0.01 264	A 0.01 264	A 0.01 264	A 0.01 264	A 0. 264
35	A 0.08 269	A 0.09 269	A 0.09 269	A 0.04 269	A 0.02 269	A 0.02 269	A 0.01 269	A 0.02 269
36	B 0.08 348	B 0.09 348	B 0.08 348	B 0.03 348	B 0.02 348	B 0.02 348	B 0.01 348	B 0.02 348
37	B 0.09 629	B 0.1 629	B 0.08 629	B 0.03 629	B 0.02 629	B 0.02 629	B 0.01 629	B 0.02 629
38	A 0.04 54	A 0.05 54	A 0.08 54	A 0.03 54	A 0. 54	A 0. 54	A 0.01 54	A 0. 54
39	A 0.14 150	A 0.14 150	A 0.09 150	A 0.03 150	A 0.02 150	A 0.02 150	A 0.01 150	A 0. 150
40	A 0.11 282	B 0.13 383	B 0.1 383	B 0.04 383	B 0.03 383	B 0.03 383	B 0.02 383	B 0.03 383
41	B 0.19 922	B 0.19 1368	B 0.18 1368	B 0.07 1368	B 0.05 1368	B 0.05 1368	B 0.03 1368	B 0.05 1368
42	B 0.19 766	B 0.16 1294	B 0.14 1294	B 0.06 1294	B 0.03 1294	B 0.04 1294	B 0.02 1294	B 0.03 1294

2.62 $4_Trig_functions\4.1aSine\4.1.2.1(a+bsin)^m(c+dsin)^n$

Table 64: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.04 96	A 0.06 96	A 0.04 123	A 0. 123	A 0. 123	A 0. 123	A 0. 123	A 0. 123
2	A 0.03 40	A 0.05 40	A 0.03 40	A 0.02 40	A 0.02 40	A 0.01 40	A 0.01 40	A 0.02 40
3	A 0.04 66	A 0.08 66	A 0.04 66	A 0.02 66	A 0.02 66	A 0.01 66	A 0.01 66	A 0. 66
4	A 0.07 152	A 0.08 129	A 0.06 129	A 0.02 129	A 0.02 129	A 0.02 129	A 0.01 129	A 0. 129

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Table 64 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
5	A	0.06	63	A	0.05	63	A	0.03	63	A	0.02	63	A	0.02	63	A	0.02	63	A	0.01	63	A	0.03
6	A	0.05	51	A	0.04	51	A	0.03	51	A	0.02	51	A	0.02	51	A	0.02	51	A	0.01	51	A	0.02
7	A	0.04	43	A	0.04	43	A	0.02	43	A	0.02	43	A	0.02	43	A	0.02	43	A	0.01	43	A	0.02
8	B	0.07	67	B	0.06	67	B	0.04	67	B	0.03	67	B	0.02	67	B	0.01	67	B	0.02	67	B	0.03
9	A	0.06	69	A	0.06	69	A	0.04	69	A	0.03	69	A	0.02	69	A	0.03	69	A	0.02	69	A	0.02
10	A	0.08	144	A	0.07	158	A	0.04	158	A	0.03	158	A	0.03	158	A	0.02	158	A	0.02	158	A	0.02
11	A	0.05	85	A	0.05	85	A	0.03	85	A	0.02	85	A	0.02	85	A	0.02	85	A	0.01	85	A	0.02
12	A	0.06	193	A	0.06	193	A	0.04	193	A	0.03	193	A	0.03	193	A	0.03	193	A	0.02	193	A	0.03
13	A	0.06	147	A	0.06	151	A	0.04	151	A	0.03	151	A	0.03	151	A	0.02	151	A	0.02	151	A	0.03
14	A	0.06	179	A	0.07	179	A	0.05	179	A	0.04	179	A	0.03	179	A	0.04	179	A	0.02	179	A	0.02
15	A	0.06	361	A	0.07	361	A	0.05	361	A	0.04	361	A	0.02	361	A	0.03	361	A	0.02	361	A	0.03
16	B	0.07	276	B	0.07	282	B	0.05	282	B	0.04	282	B	0.03	282	B	0.03	282	B	0.02	282	B	0.03
17	B	0.08	404	A	0.08	362	A	0.06	362	A	0.05	362	A	0.05	362	A	0.03	362	A	0.02	362	A	0.05
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
28	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
30	A	0.02	60	A	0.03	60	A	0.01	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73	A	0.
31	A	0.	17	A	0.02	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.
32	A	0.02	51	A	0.04	51	A	0.01	51	A	0.	51	A	0.	51	A	0.	51	A	0.	51	A	0.

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Table 64 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
33	A	0.08	82	A	0.09	92	A	0.05	92	A	0.02	92	A	0.01	92	A	0.	92	A	0.	92	A	0.
34	A	0.08	201	A	0.09	218	A	0.06	218	A	0.03	218	A	0.02	218	A	0.02	218	A	0.01	218	A	0.02
35	B	0.06	265	B	0.07	513	B	0.05	513	B	0.02	513	B	0.01	513	B	0.02	513	B	0.01	513	B	0.02
36	B	0.06	221	B	0.06	567	B	0.05	567	B	0.02	567	B	0.02	567	B	0.02	567	B	0.01	567	B	0.02
37	B	0.06	300	B	0.06	626	B	0.08	626	B	0.02	626	B	0.02	626	B	0.01	626	B	0.01	626	B	0.02
38	B	0.12	1733	B	0.11	1692	B	0.09	1692	B	0.02	1692	B	0.02	1692	B	0.02	1692	B	0.01	1692	B	0.03
39	B	0.06	460	B	0.06	460	B	0.04	460	B	0.03	460	B	0.03	460	B	0.03	460	B	0.02	460	B	0.03
40	A	0.05	202	A	0.05	202	A	0.04	202	A	0.03	202	A	0.02	202	A	0.03	202	A	0.02	202	A	0.03
41	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
43	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
45	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
48	A	0.02	88	A	0.03	88	A	0.01	93	A	0.	93	A	0.	93	A	0.	93	A	0.	93	A	0.
49	B	0.14	88	B	0.15	88	B	0.12	88	B	0.03	88	B	0.01	88	B	0.	88	B	0.01	88	B	0.
50	B	0.02	160	B	0.03	160	B	0.01	188	B	0.01	188	B	0.	188	B	0.	188	B	0.	188	B	0.
51	A	0.1	133	A	0.1	133	A	0.09	133	A	0.04	133	A	0.02	133	A	0.02	133	A	0.01	133	A	0.
52	A	0.18	267	A	0.18	243	A	0.15	243	A	0.04	243	A	0.02	243	A	0.03	243	A	0.01	243	A	0.02
53	A	0.14	31	A	0.14	31	A	0.2	31	A	0.08	31	A	0.01	31	A	0.02	31	A	0.01	31	A	0.02
54	A	0.17	277	A	0.18	239	A	0.15	239	A	0.04	239	A	0.02	239	A	0.02	239	A	0.01	239	A	0.
55	A	0.14	143	A	0.16	143	A	0.13	143	A	0.03	143	A	0.02	143	A	0.01	143	A	0.01	143	A	0.
56	A	0.12	86	A	0.16	86	A	0.11	86	A	0.02	86	A	0.01	86	A	0.02	86	A	0.01	86	A	0.02
57	A	0.11	253	A	0.13	253	A	0.1	253	A	0.06	253	A	0.02	253	A	0.01	253	A	0.01	253	A	0.02
58	A	0.06	49	A	0.06	49	A	0.04	49	A	0.03	49	A	0.02	49	A	0.02	49	A	0.02	49	A	0.03
59	A	0.06	191	A	0.07	197	A	0.04	197	A	0.04	197	A	0.04	197	A	0.05	197	A	0.02	197	A	0.03
60	A	0.06	81	A	0.08	81	A	0.03	81	A	0.02	81	A	0.02	81	A	0.02	81	A	0.02	81	A	0.02

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Table 64 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
61	A	0.07	239	A	0.08	222	A	0.04	222	A	0.04	222	A	0.02	222	A	0.05	222	A	0.02	222	A	0.02
62	A	0.06	59	A	0.07	59	A	0.04	59	A	0.04	59	A	0.03	59	A	0.03	59	A	0.02	59	A	0.02
63	A	0.06	49	A	0.07	49	A	0.05	49	A	0.03	49	A	0.03	49	A	0.03	49	A	0.02	49	A	0.02
64	A	0.07	79	A	0.08	79	A	0.05	79	A	0.04	79	A	0.03	79	A	0.03	79	A	0.02	79	A	0.03
65	A	0.08	157	A	0.09	161	A	0.06	161	A	0.05	161	A	0.04	161	A	0.05	161	A	0.02	161	A	0.02
66	A	0.08	233	A	0.09	233	A	0.06	233	A	0.05	233	A	0.04	233	A	0.04	233	A	0.02	233	A	0.03
67	A	0.08	91	A	0.09	91	A	0.06	91	A	0.04	91	A	0.03	91	A	0.03	91	A	0.02	91	A	0.03
68	A	0.08	81	A	0.09	81	A	0.06	81	A	0.04	81	A	0.03	81	A	0.03	81	A	0.02	81	A	0.03
69	A	0.08	71	A	0.09	71	A	0.05	71	A	0.04	71	A	0.03	71	A	0.03	71	A	0.02	71	A	0.02
70	A	0.08	61	A	0.09	61	A	0.05	61	A	0.04	61	A	0.03	61	A	0.03	61	A	0.02	61	A	0.03
71	A	0.09	122	A	0.1	122	A	0.06	122	A	0.04	122	A	0.03	122	A	0.03	122	A	0.02	122	A	0.02
72	B	0.2	103	B	0.2	103	B	0.17	103	B	0.15	103	B	0.14	103	B	0.16	103	B	0.11	103	B	0.08
73	B	0.14	78	B	0.14	78	B	0.12	78	B	0.1	78	B	0.08	78	B	0.09	78	B	0.07	78	B	0.06
74	A	0.12	61	A	0.12	61	A	0.09	61	A	0.08	61	A	0.05	61	A	0.06	61	A	0.05	61	A	0.06
75	B	0.12	96	B	0.12	95	B	0.1	96	B	0.08	95	B	0.07	95	B	0.06	95	B	0.05	96	B	0.05
76	A	0.12	55	A	0.12	55	A	0.09	55	A	0.08	55	A	0.08	55	A	0.08	55	A	0.05	55	A	0.05
77	B	0.14	80	B	0.14	79	B	0.12	80	B	0.1	79	B	0.08	79	B	0.09	79	B	0.07	80	B	0.06
78	A	0.27	226	A	0.27	225	A	0.24	226	A	0.22	225	A	0.19	225	A	0.22	225	A	0.16	226	A	0.09
79	A	0.31	106	A	0.26	107	A	0.23	106	A	0.21	107	A	0.18	107	A	0.2	107	A	0.14	107	A	0.06
80	B	0.2	103	B	0.18	105	B	0.16	103	B	0.14	105	B	0.13	105	B	0.14	105	B	0.1	103	B	0.08
81	B	0.13	90	B	0.12	91	B	0.1	90	B	0.09	92	B	0.08	91	B	0.08	91	B	0.06	92	B	0.03
82	B	0.18	249	B	0.18	252	B	0.16	249	B	0.14	252	B	0.12	252	B	0.14	252	B	0.09	252	B	0.06
83	B	0.16	441	B	0.16	448	B	0.14	441	B	0.13	448	B	0.11	448	B	0.12	448	B	0.09	446	B	0.06
84	B	0.11	96	B	0.12	93	B	0.09	96	B	0.07	93	B	0.06	93	B	0.04	93	B	0.04	93	B	0.05
85	A	0.24	227	A	0.25	229	A	0.22	227	A	0.2	229	A	0.19	227	A	0.22	229	A	0.15	227	A	0.06
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
87	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0

Continued on n

Table 64 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
89	A	0.	17	A	0.02	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.
90	A	0.16	147	B	0.15	398	B	0.14	398	B	0.02	398	B	0.02	398	B	0.02	398	B	0.01	398	B	0.02
91	A	0.09	462	A	0.1	462	A	0.07	545	A	0.01	545	A	0.	545	A	0.02	545	A	0.	545	A	0.
92	A	0.08	329	A	0.09	329	A	0.06	379	A	0.01	379	A	0.	379	A	0.	379	A	0.	379	A	0.
93	A	0.05	117	A	0.06	117	A	0.03	125	A	0.	125	A	0.	125	A	0.	125	A	0.	125	A	0.
94	A	0.04	74	A	0.05	74	A	0.03	82	A	0.	82	A	0.	82	A	0.02	82	A	0.	82	A	0.
95	B	0.13	673	B	0.11	492	B	0.09	492	B	0.04	492	B	0.02	492	B	0.02	492	B	0.01	492	B	0.02
96	B	0.15	618	B	0.14	541	B	0.09	541	B	0.03	541	B	0.03	541	B	0.02	541	B	0.01	541	B	0.02
97	B	0.09	213	B	0.1	213	B	0.07	213	B	0.02	213	B	0.02	213	B	0.02	213	B	0.01	213	B	0.
98	B	0.13	593	B	0.14	593	B	0.1	593	B	0.03	593	B	0.03	593	B	0.03	593	B	0.01	593	B	0.02
99	A	0.11	139	A	0.1	139	A	0.07	139	A	0.02	139	A	0.02	139	A	0.01	139	A	0.01	139	A	0.02
100	A	0.06	115	A	0.06	115	A	0.05	115	A	0.02	115	A	0.01	115	A	0.02	115	A	0.	115	A	0.
101	B	0.16	1063	B	0.15	1063	B	0.12	1063	B	0.11	1063	B	0.09	1063	B	0.11	1063	B	0.08	1063	B	0.11
102	B	0.12	758	B	0.13	758	B	0.09	758	B	0.08	758	B	0.07	758	B	0.08	758	B	0.06	758	B	0.08
103	B	0.13	960	B	0.14	960	B	0.13	960	B	0.09	960	B	0.06	960	B	0.08	960	B	0.06	960	B	0.09
104	B	0.15	1711	B	0.14	1711	B	0.11	1711	B	0.08	1711	B	0.06	1711	B	0.08	1711	B	0.06	1711	B	0.09
105	B	0.1	1130	B	0.1	1130	B	0.07	1130	B	0.05	1130	B	0.05	1130	B	0.05	1130	B	0.03	1130	B	0.06
106	A	0.05	58	A	0.06	58	A	0.03	58	A	0.02	58	A	0.02	58	A	0.02	58	A	0.02	58	A	0.03
107	A	0.11	254	A	0.11	254	A	0.08	254	A	0.05	254	A	0.03	254	A	0.03	254	A	0.02	254	A	0.05
108	A	0.06	130	A	0.07	130	A	0.03	130	A	0.02	130	A	0.03	130	A	0.02	130	A	0.02	130	A	0.03
109	A	0.06	137	A	0.07	137	A	0.05	137	A	0.04	137	A	0.03	137	A	0.03	137	A	0.02	137	A	0.03
110	B	0.11	610	B	0.11	608	B	0.07	608	B	0.05	608	B	0.05	608	B	0.04	608	B	0.02	608	B	0.03
111	A	0.08	285	A	0.08	285	A	0.04	285	A	0.03	285	A	0.02	285	A	0.03	285	A	0.02	285	A	0.03
112	A	0.04	75	A	0.05	75	A	0.03	75	A	0.02	75	A	0.02	75	A	0.02	75	A	0.02	75	A	0.02
113	A	0.04	125	A	0.06	125	A	0.03	125	A	0.03	125	A	0.02	125	A	0.03	125	A	0.02	125	A	0.03
114	B	0.15	3535	B	0.14	3173	B	0.09	3173	B	0.07	3173	B	0.05	3173	B	0.06	3173	B	0.04	3173	B	0.06
115	F	0	0	B	107.21	52604	B	108.19	107359	B	101.01	107519	B	150.74	107519	B	143.81	107519	F	0	0	F	0
116	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0

Continued on n

Table 64 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
117	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
118	B	0.21	1373	B	0.24	1373	B	0.18	1373	B	0.17	1373	B	0.14	1373	B	0.16	1373	B	0.12	1373	B	0.11
119	B	0.26	2246	B	0.3	2253	B	0.24	2252	B	0.25	2247	B	0.19	2247	B	0.23	2247	B	0.18	2253	B	0.12
120	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
121	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
122	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
123	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
124	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
125	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
126	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
127	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
128	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
129	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
130	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
131	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
132	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
133	A	0.	17	A	0.02	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.
134	B	0.11	1291	B	0.12	1584	B	0.08	1584	B	0.02	1584	B	0.02	1584	B	0.02	1584	B	0.01	1584	B	0.02
135	A	0.06	325	A	0.07	325	A	0.03	375	A	0.01	375	A	0.	375	A	0.	375	A	0.	375	A	0.
136	B	0.19	4818	B	0.17	5078	B	0.12	5078	B	0.04	5078	B	0.03	5078	B	0.04	5078	B	0.02	5078	B	0.03
137	A	0.08	489	A	0.09	489	A	0.04	579	A	0.01	579	A	0.02	579	A	0.	579	A	0.	579	A	0.02
138	A	0.03	76	A	0.05	76	A	0.02	84	A	0.01	84	A	0.02	84	A	0.	84	A	0.	84	A	0.
139	B	0.09	226	B	0.1	226	B	0.05	226	B	0.03	226	B	0.02	226	B	0.02	226	B	0.01	226	B	0.02
140	A	0.04	119	A	0.06	119	A	0.04	119	A	0.02	119	A	0.02	119	A	0.01	119	A	0.01	119	A	0.02
141	B	0.17	1303	B	0.18	1365	B	0.11	1365	B	0.05	1365	B	0.03	1365	B	0.04	1365	B	0.02	1365	B	0.03
142	A	0.06	155	B	0.08	226	B	0.05	226	B	0.01	226	B	0.01	226	B	0.01	226	B	0.01	226	B	0.
143	B	0.2	886	B	0.2	774	B	0.17	774	B	0.08	774	B	0.03	774	B	0.04	774	B	0.02	774	B	0.03
144	B	0.18	3683	B	0.21	4026	B	0.12	4026	B	0.05	4026	B	0.03	4026	B	0.04	4026	B	0.02	4026	B	0.03

Continued on n

Table 64 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
145	B	0.16	2893	B	0.18	2893	B	0.11	2893	B	0.11	2893	B	0.08	2893	B	0.1	2893	B	0.08	2893	B	0.09
146	A	0.09	181	A	0.1	181	A	0.06	181	A	0.06	181	A	0.05	181	A	0.06	181	A	0.04	181	A	0.06
147	B	0.16	1279	B	0.19	1279	B	0.12	1279	B	0.12	1279	B	0.09	1279	B	0.09	1279	B	0.08	1279	B	0.09
148	B	0.12	1752	B	0.14	1752	B	0.09	1752	B	0.08	1752	B	0.09	1752	B	0.11	1752	B	0.09	1752	B	0.12
149	B	0.19	1900	B	0.2	1900	B	0.15	1900	B	0.14	1900	B	0.11	1900	B	0.13	1900	B	0.11	1900	B	0.16
150	B	0.13	1535	B	0.14	1535	B	0.09	1535	B	0.07	1535	B	0.05	1535	B	0.06	1535	B	0.06	1535	B	0.08
151	B	0.14	2117	B	0.16	2117	B	0.1	2117	B	0.08	2117	B	0.08	2117	B	0.09	2117	B	0.08	2117	B	0.12
152	C	7.41	404097	C	17.49	404737	C	17.99	404333	C	19.11	404969	C	27.47	404737	C	31.03	404737	C	30.31	404734	C	69.92
153	C	3.34	277001	C	5.45	277447	C	5.21	277169	C	5.57	277611	C	7.19	277447	C	7.57	277447	C	7.51	277443	C	17.24
154	C	2.96	247411	C	3.19	248382	C	2.9	247460	C	3.12	248000	C	3.65	248382	C	4.17	248385	C	3.68	247948	C	8.44
155	C	7.07	408944	C	16.56	409591	C	17.52	409182	C	18.19	409825	C	27.33	409591	C	27.33	409591	C	28.32	409588	C	71.17
156	C	3.23	277938	C	5.28	278385	C	5.18	278106	C	5.43	278548	C	7.13	278385	C	7.83	278385	C	7.29	278217	C	18.19
157	C	12.94	729274	C	28.68	731126	C	28.92	729438	C	46.7	731219	C	51.9	731126	C	52.86	731129	C	56.06	731055	C	135.8
158	B	0.86	41765	B	0.71	41970	B	0.6	41763	B	0.59	41919	B	0.56	41970	B	0.7	41973	B	0.58	41972	B	0.87
159	B	3.73	241734	B	4.32	242899	B	3.92	241718	B	4.36	242607	B	5.03	242899	B	5.43	242889	B	5.44	242901	B	11.14
160	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
161	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
162	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
163	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
164	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
165	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
166	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
167	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
168	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0

2.63 $4_Trig_functions\4.1aSine\4.1.2.2(gcos)^p(a+bsin)^m(c+dsin)^n$

Table 65: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.16	138	A	0.17	135	A	0.14	138	A	0.14	135	A	0.08	138	A	0.11	135	A	0.09	138	A	0.08	141
2	B	0.16	192	B	0.17	189	B	0.13	192	B	0.12	189	B	0.1	191	B	0.11	189	B	0.07	191	B	0.06	191
3	A	0.57	133	A	0.65	133	A	0.59	133	A	0.63	133	A	0.5	133	A	0.55	133	A	0.42	133	A	0.11	133
4	B	0.17	141	B	0.18	141	B	0.14	141	B	0.14	141	B	0.09	141	B	0.11	141	B	0.08	141	B	0.08	141
5	B	0.19	127	B	0.2	124	B	0.17	127	B	0.16	124	B	0.12	124	B	0.12	124	B	0.1	124	B	0.06	124
6	A	0.26	152	A	0.29	149	A	0.25	152	A	0.24	149	A	0.19	149	A	0.22	149	A	0.16	149	A	0.08	149
7	B	0.21	199	B	0.24	195	B	0.2	199	B	0.19	195	B	0.14	195	B	0.16	195	B	0.12	199	B	0.08	195
8	A	0.3	329	A	0.33	325	A	0.31	329	A	0.28	327	A	0.22	325	A	0.26	325	A	0.18	329	A	0.09	325
9	B	0.19	157	B	0.21	153	B	0.17	157	B	0.16	153	B	0.13	153	B	0.14	153	B	0.1	153	B	0.08	153
10	A	0.86	87	A	0.98	87	A	0.89	87	A	1.04	87	A	0.84	87	A	0.84	87	A	0.66	87	A	0.09	87
11	A	1.01	143	A	1.14	143	A	1.05	143	A	1.2	143	A	1.	143	A	1.01	143	A	0.76	143	A	0.14	143
12	A	0.35	253	A	0.39	250	A	0.34	253	A	0.34	250	A	0.29	250	A	0.33	250	A	0.22	250	A	0.11	250
13	B	0.21	195	B	0.24	195	B	0.2	195	B	0.19	195	B	0.14	195	B	0.17	195	B	0.12	195	B	0.08	195
14	B	0.13	90	B	0.15	90	B	0.11	90	B	0.1	90	B	0.06	90	B	0.08	90	B	0.06	90	B	0.06	90
15	B	0.14	141	B	0.15	138	B	0.11	230	B	0.11	229	B	0.06	227	B	0.09	227	B	0.05	227	B	0.06	230
16	A	0.36	252	A	0.39	252	A	0.35	252	A	0.35	252	A	0.27	252	A	0.32	252	A	0.24	252	A	0.08	252
17	A	0.25	213	A	0.28	214	A	0.24	214	A	0.22	215	A	0.17	214	A	0.24	214	A	0.15	215	A	0.09	213
18	A	0.18	172	A	0.2	170	A	0.16	172	A	0.15	172	A	0.11	170	A	0.14	170	A	0.09	172	A	0.06	172
19	A	0.29	268	A	0.32	270	A	0.27	268	A	0.27	270	A	0.22	270	A	0.27	270	A	0.17	270	A	0.09	268
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

Continued on next page

Table 65 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
28	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
31	C	0.37	346	C	0.38	344	C	0.33	346	C	0.3	346	C	0.25	344	C	0.3	344	C	0.2	346	C	0.12	346
32	C	0.31	372	C	0.34	372	C	0.28	372	C	0.25	372	C	0.2	372	C	0.23	372	C	0.19	372	C	0.17	372
33	C	0.23	384	C	0.24	382	C	0.2	384	C	0.19	382	C	0.15	382	C	0.16	382	C	0.12	384	C	0.12	384
34	C	0.34	1138	C	0.35	1136	C	0.32	2635	C	0.3	2633	C	0.25	2633	C	0.3	2633	C	0.23	2633	C	0.28	2633
35	C	0.32	2945	C	0.34	2945	C	0.32	3917	C	0.29	3917	C	0.23	3917	C	0.26	3917	C	0.21	3917	C	0.17	3917
36	C	0.4	4829	C	0.42	4828	C	0.36	6679	C	0.36	6678	C	0.3	6678	C	0.34	6678	C	0.27	6678	C	0.19	6679
37	C	0.32	3910	C	0.33	3908	C	0.28	7503	C	0.27	7501	C	0.22	7501	C	0.27	7501	C	0.21	7501	C	0.31	7503
38	C	0.23	956	C	0.23	956	C	0.2	2325	C	0.19	2325	C	0.14	2325	C	0.16	2325	C	0.12	2325	C	0.12	2325
39	C	0.42	2994	C	0.44	2994	C	0.39	3966	C	0.4	3969	C	0.31	3966	C	0.38	3966	C	0.29	3969	C	0.25	3969
40	C	0.3	2838	C	0.32	2836	C	0.28	3810	C	0.28	3807	C	0.22	3808	C	0.25	3807	C	0.19	3807	C	0.08	3811
41	C	0.23	2040	C	0.24	2040	C	0.22	3499	C	0.18	3499	C	0.14	3499	C	0.19	3499	C	0.13	3499	C	0.16	3499
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
43	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
45	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
48	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
49	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
52	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
53	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	A	0.04	27	A	0.05	27	A	0.05	27	A	0.02	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
55	A	0.02	45	A	0.03	45	A	0.01	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45	A	0.	45

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
56	A	0.04	46	A	0.05	46	A	0.01	46	A	0.02	46	A	0.	46	A	0.	46	A	0.01	46	A	0.	46
57	A	0.04	48	A	0.06	48	A	0.06	48	A	0.02	48	A	0.02	48	A	0.01	48	A	0.	48	A	0.	48
58	A	0.04	39	A	0.06	39	A	0.06	45	A	0.02	45	A	0.	45	A	0.02	45	A	0.	45	A	0.	45
59	A	0.02	58	A	0.04	58	A	0.01	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58	A	0.	58
60	A	0.05	49	A	0.06	49	A	0.06	58	A	0.03	58	A	0.02	58	A	0.	58	A	0.	58	A	0.	58
61	A	0.02	48	A	0.04	48	A	0.02	48	A	0.01	48	A	0.	48	A	0.02	48	A	0.	48	A	0.02	48
62	A	0.05	81	A	0.07	81	A	0.1	81	A	0.04	81	A	0.01	81	A	0.02	81	A	0.01	81	A	0.	81
63	A	0.04	50	A	0.05	50	A	0.03	50	A	0.02	50	A	0.	50	A	0.	50	A	0.	50	A	0.02	50
64	A	0.05	68	A	0.07	68	A	0.11	68	A	0.04	68	A	0.01	68	A	0.02	68	A	0.01	68	A	0.02	68
65	A	0.04	85	A	0.06	85	A	0.03	85	A	0.02	85	A	0.02	85	A	0.	85	A	0.	85	A	0.	85
66	A	0.03	33	A	0.05	33	A	0.02	33	A	0.01	33	A	0.	33	A	0.02	33	A	0.	33	A	0.02	33
67	A	0.07	102	A	0.09	102	A	0.13	102	A	0.05	102	A	0.02	102	A	0.02	102	A	0.01	102	A	0.02	102
68	A	0.05	86	A	0.06	86	A	0.03	86	A	0.02	86	A	0.	86	A	0.	86	A	0.	86	A	0.	86
69	A	0.04	33	A	0.05	33	A	0.02	33	A	0.01	33	A	0.	33	A	0.02	33	A	0.	33	A	0.	33
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
72	A	0.05	57	A	0.07	57	A	0.06	57	A	0.02	57	A	0.02	57	A	0.	57	A	0.01	57	A	0.	57
73	A	0.07	81	A	0.08	81	A	0.06	81	A	0.02	81	A	0.02	81	A	0.01	81	A	0.	81	A	0.02	81
74	A	0.06	102	A	0.09	102	A	0.06	102	A	0.02	102	A	0.02	102	A	0.01	102	A	0.	102	A	0.02	102
75	A	0.04	142	A	0.06	142	A	0.03	142	A	0.01	142	A	0.	142	A	0.	142	A	0.	142	A	0.	142
76	A	0.04	95	A	0.06	95	A	0.02	95	A	0.01	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95
77	A	0.08	89	A	0.1	89	A	0.06	89	A	0.02	89	A	0.02	89	A	0.	89	A	0.	89	A	0.	89
78	A	0.09	112	A	0.11	112	A	0.07	112	A	0.03	112	A	0.02	112	A	0.02	112	A	0.01	112	A	0.	112
79	A	0.11	160	A	0.13	160	A	0.08	160	A	0.03	160	A	0.	160	A	0.02	160	A	0.	160	A	0.	160
80	A	0.12	37	A	0.15	37	A	0.11	37	A	0.05	37	A	0.02	37	A	0.01	37	A	0.01	37	A	0.02	37
81	A	0.17	132	A	0.2	132	A	0.18	132	A	0.05	132	A	0.	132	A	0.	132	A	0.01	132	A	0.	132
82	A	0.21	208	A	0.25	208	A	0.22	208	A	0.05	208	A	0.01	208	A	0.	208	A	0.01	208	A	0.02	208
83	A	0.12	64	A	0.13	64	A	0.11	64	A	0.03	64	A	0.01	64	A	0.02	64	A	0.01	64	A	0.	64

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
84	A	0.22	114	A	0.26	114	A	0.2	114	A	0.06	114	A	0.02	114	A	0.02	114	A	0.01	114	A	0.	114
85	A	0.25	153	A	0.27	153	A	0.23	153	A	0.06	153	A	0.02	153	A	0.02	153	A	0.01	153	A	0.	153
86	A	0.07	75	A	0.06	75	A	0.04	75	A	0.03	75	A	0.03	75	A	0.02	75	A	0.02	75	A	0.03	75
87	A	0.08	144	A	0.09	158	A	0.06	158	A	0.04	158	A	0.03	158	A	0.03	158	A	0.02	158	A	0.02	158
88	A	0.08	144	A	0.09	158	A	0.06	158	A	0.04	158	A	0.03	158	A	0.02	158	A	0.02	158	A	0.03	158
89	A	0.07	87	A	0.07	87	A	0.04	88	A	0.03	87	A	0.01	87	A	0.03	87	A	0.02	88	A	0.03	88
90	A	0.07	103	A	0.07	105	A	0.04	105	A	0.03	105	A	0.02	105	A	0.01	105	A	0.02	105	A	0.02	104
91	A	0.08	124	A	0.09	130	A	0.06	130	A	0.04	130	A	0.03	130	A	0.03	130	A	0.02	130	A	0.03	130
92	A	0.04	92	A	0.06	92	A	0.03	98	A	0.01	98	A	0.	98	A	0.	98	A	0.	98	A	0.	98
93	A	0.06	82	A	0.07	82	A	0.05	82	A	0.02	82	A	0.	82	A	0.	82	A	0.	82	A	0.	82
94	A	0.06	97	A	0.08	97	A	0.04	97	A	0.02	97	A	0.01	97	A	0.	97	A	0.	97	A	0.	97
95	A	0.1	152	A	0.12	152	A	0.08	152	A	0.03	152	A	0.	152	A	0.	152	A	0.	152	A	0.02	152
96	A	0.06	252	A	0.08	252	A	0.04	262	A	0.01	262	A	0.	262	A	0.	262	A	0.	262	A	0.02	262
97	A	0.06	216	A	0.07	216	A	0.04	226	A	0.01	226	A	0.	226	A	0.	226	A	0.	226	A	0.	226
98	A	0.1	152	A	0.12	152	A	0.07	152	A	0.03	152	A	0.02	152	A	0.	152	A	0.	152	A	0.	152
99	A	0.11	161	A	0.13	161	A	0.08	161	A	0.03	161	A	0.01	161	A	0.	161	A	0.01	161	A	0.	161
100	A	0.12	176	A	0.14	176	A	0.08	176	A	0.03	176	A	0.	176	A	0.02	176	A	0.01	176	A	0.	176
101	B	0.11	381	B	0.14	327	B	0.11	327	B	0.03	327	B	0.02	327	B	0.02	327	B	0.01	327	B	0.02	327
102	A	0.14	97	A	0.16	97	A	0.12	97	A	0.05	97	A	0.02	97	A	0.02	97	A	0.01	97	A	0.	97
103	B	0.18	132	B	0.18	132	B	0.14	132	B	0.04	132	B	0.02	132	B	0.01	132	B	0.	132	B	0.	132
104	A	0.17	132	A	0.2	132	A	0.16	132	A	0.05	132	A	0.02	132	A	0.01	132	A	0.01	132	A	0.02	132
105	B	0.14	245	B	0.16	194	B	0.12	194	B	0.03	194	B	0.02	194	B	0.01	194	B	0.01	194	B	0.02	194
106	A	0.22	93	A	0.24	93	A	0.22	93	A	0.06	93	A	0.	93	A	0.	93	A	0.01	93	A	0.02	93
107	B	0.18	198	B	0.19	174	B	0.15	174	B	0.04	174	B	0.02	174	B	0.02	174	B	0.01	174	B	0.02	174
108	A	0.21	58	A	0.24	58	A	0.19	58	A	0.07	58	A	0.03	58	A	0.02	58	A	0.01	58	A	0.	58
109	A	0.08	170	A	0.1	184	A	0.06	184	A	0.05	184	A	0.03	184	A	0.03	184	A	0.02	184	A	0.03	184
110	A	0.08	159	A	0.08	159	A	0.05	159	A	0.03	159	A	0.03	159	A	0.02	159	A	0.02	159	A	0.03	159
111	A	0.08	202	A	0.09	202	A	0.06	202	A	0.05	202	A	0.02	202	A	0.03	202	A	0.02	202	A	0.03	202

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
112	A	0.06	64	A	0.07	64	A	0.04	64	A	0.03	64	A	0.02	64	A	0.02	64	A	0.02	64	A	0.03	64
113	A	0.08	130	A	0.1	130	A	0.06	130	A	0.04	130	A	0.02	130	A	0.03	130	A	0.02	130	A	0.03	130
114	A	0.05	57	A	0.06	57	A	0.03	57	A	0.03	57	A	0.02	57	A	0.01	57	A	0.02	57	A	0.02	57
115	A	0.09	200	A	0.1	222	A	0.08	222	A	0.05	222	A	0.03	222	A	0.05	222	A	0.03	222	A	0.03	222
116	A	0.04	102	A	0.06	102	A	0.03	114	A	0.01	114	A	0.	114	A	0.02	114	A	0.	114	A	0.	114
117	A	0.06	160	A	0.08	160	A	0.06	160	A	0.02	160	A	0.	160	A	0.	160	A	0.	160	A	0.02	160
118	A	0.07	110	A	0.09	110	B	0.06	122	B	0.02	122	B	0.	122	B	0.	122	B	0.	122	B	0.	122
119	B	0.08	184	B	0.1	184	B	0.07	196	B	0.02	196	B	0.	196	B	0.	196	B	0.	196	B	0.02	196
120	A	0.05	156	A	0.06	156	A	0.03	180	A	0.01	180	A	0.	180	A	0.02	180	A	0.	180	A	0.	180
121	A	0.1	144	A	0.12	144	A	0.06	144	A	0.02	144	A	0.02	144	A	0.	144	A	0.	144	A	0.	144
122	A	0.22	49	A	0.25	49	A	0.21	49	A	0.04	49	A	0.02	49	A	0.02	49	A	0.01	49	A	0.	49
123	A	0.1	39	A	0.14	39	A	0.09	39	A	0.02	39	A	0.	39	A	0.	39	A	0.	39	A	0.02	39
124	A	0.17	48	A	0.22	48	A	0.16	48	A	0.05	48	A	0.02	48	A	0.02	48	A	0.01	48	A	0.02	48
125	A	0.22	39	A	0.25	39	A	0.21	39	A	0.05	39	A	0.01	39	A	0.01	39	A	0.01	39	A	0.	39
126	A	0.15	81	A	0.16	81	A	0.14	81	A	0.02	81	A	0.	81	A	0.	81	A	0.01	81	A	0.	81
127	A	0.02	78	A	0.04	78	A	0.02	89	A	0.	89	A	0.	89	A	0.	89	A	0.	89	A	0.	89
128	A	0.06	131	A	0.08	131	A	0.05	131	A	0.02	131	A	0.02	131	A	0.	131	A	0.	131	A	0.02	131
129	A	0.05	184	A	0.07	184	A	0.04	206	A	0.01	206	A	0.	206	A	0.02	206	A	0.	206	A	0.	206
130	A	0.04	116	A	0.06	116	A	0.03	127	A	0.01	127	A	0.	127	A	0.02	127	A	0.	127	A	0.	127
131	A	0.1	199	A	0.12	199	A	0.08	199	A	0.03	199	A	0.	199	A	0.	199	A	0.	199	A	0.	199
132	A	0.11	247	A	0.12	247	A	0.08	247	A	0.03	247	A	0.02	247	A	0.	247	A	0.01	247	A	0.	247
133	A	0.08	272	A	0.1	272	A	0.05	294	A	0.01	294	A	0.02	294	A	0.	294	A	0.	294	A	0.	294
134	A	0.05	198	A	0.07	198	A	0.03	220	A	0.01	220	A	0.	220	A	0.	220	A	0.	220	A	0.02	220
135	A	0.11	190	A	0.12	190	A	0.07	190	A	0.03	190	A	0.	190	A	0.	190	A	0.01	190	A	0.02	190
136	A	0.12	223	A	0.12	223	A	0.08	223	A	0.03	223	A	0.	223	A	0.	223	A	0.01	223	A	0.02	223
137	A	0.12	253	A	0.14	253	A	0.09	253	A	0.04	253	A	0.02	253	A	0.02	253	A	0.01	253	A	0.	253
138	A	0.12	223	A	0.14	223	A	0.08	223	A	0.04	223	A	0.	223	A	0.01	223	A	0.01	223	A	0.	223
139	B	0.13	483	B	0.17	414	B	0.12	414	B	0.04	414	B	0.02	414	B	0.02	414	B	0.01	414	B	0.	414

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
140	B	0.18	196	B	0.2	161	B	0.16	161	B	0.05	161	B	0.02	161	B	0.02	161	B	0.01	161	B	0.	161
141	A	0.26	132	A	0.28	132	A	0.25	132	A	0.06	132	A	0.02	132	A	0.02	132	A	0.01	132	A	0.	132
142	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
143	A	0.04	112	A	0.06	112	A	0.04	130	A	0.01	130	A	0.02	130	A	0.	130	A	0.	130	A	0.02	130
144	A	0.06	150	A	0.08	150	A	0.06	150	A	0.02	150	A	0.02	150	A	0.02	150	A	0.	150	A	0.	150
145	B	0.07	239	B	0.09	239	B	0.06	239	B	0.03	239	B	0.02	239	B	0.	239	B	0.01	239	B	0.	239
146	A	0.07	195	A	0.09	195	A	0.07	195	A	0.02	195	A	0.	195	A	0.01	195	A	0.	195	A	0.02	195
147	B	0.08	194	B	0.1	194	B	0.07	212	B	0.02	212	B	0.	212	B	0.	212	B	0.	212	B	0.	212
148	A	0.14	69	A	0.18	69	A	0.14	69	A	0.02	69	A	0.	69	A	0.	69	A	0.	69	A	0.02	69
149	A	0.09	69	A	0.11	69	A	0.09	69	A	0.01	69	A	0.02	69	A	0.01	69	A	0.	69	A	0.	69
150	A	0.18	94	A	0.2	94	A	0.16	94	A	0.05	94	A	0.02	94	A	0.	94	A	0.01	94	A	0.02	94
151	A	0.29	69	A	0.32	69	A	0.28	69	A	0.06	69	A	0.01	69	A	0.	69	A	0.	69	A	0.02	69
152	A	0.31	69	A	0.35	69	A	0.31	69	A	0.05	69	A	0.	69	A	0.	69	A	0.	69	A	0.	69
153	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
154	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
155	B	0.17	432	B	0.19	344	B	0.16	344	B	0.07	344	B	0.03	344	B	0.03	344	B	0.01	344	B	0.02	344
156	B	0.21	310	B	0.24	274	B	0.2	274	B	0.07	274	B	0.02	274	B	0.02	274	B	0.01	274	B	0.02	274
157	B	0.21	333	B	0.23	271	B	0.18	271	B	0.06	271	B	0.03	271	B	0.02	271	B	0.01	271	B	0.02	271
158	B	0.36	436	B	0.39	436	B	0.35	436	B	0.06	436	B	0.02	436	B	0.02	436	B	0.01	436	B	0.02	436
159	B	0.16	517	B	0.19	414	B	0.15	414	B	0.04	414	B	0.01	414	B	0.02	414	B	0.01	414	B	0.	414
160	B	0.31	322	B	0.33	322	B	0.28	322	B	0.06	322	B	0.02	322	B	0.02	322	B	0.01	322	B	0.02	322
161	A	0.06	104	A	0.08	104	A	0.05	121	A	0.01	121	A	0.	121	A	0.	121	A	0.	121	A	0.	121
162	A	0.06	59	A	0.06	59	A	0.04	65	A	0.01	65	A	0.	65	A	0.	65	A	0.	65	A	0.	65
163	A	0.04	32	A	0.06	32	A	0.04	32	A	0.01	32	A	0.02	32	A	0.	32	A	0.	32	A	0.	32
164	A	0.17	93	A	0.16	109	A	0.13	109	A	0.05	109	A	0.	109	A	0.01	109	A	0.	109	A	0.	109
165	A	0.18	128	A	0.19	136	A	0.16	136	A	0.05	136	A	0.	136	A	0.01	136	A	0.	136	A	0.02	136
166	A	0.11	104	A	0.12	104	A	0.1	104	A	0.05	104	A	0.02	104	A	0.02	104	A	0.01	104	A	0.03	104
167	A	0.11	103	A	0.12	103	A	0.1	103	A	0.06	103	A	0.03	103	A	0.03	103	A	0.01	103	A	0.02	103

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
168	A	0.17	211	A	0.19	211	A	0.16	211	A	0.08	211	A	0.02	211	A	0.03	211	A	0.01	211	A	0.02	211
169	A	0.14	130	A	0.16	130	A	0.14	130	A	0.06	130	A	0.02	130	A	0.02	130	A	0.01	130	A	0.02	130
170	A	0.14	130	A	0.2	130	A	0.13	130	A	0.06	130	A	0.01	130	A	0.02	130	A	0.01	130	A	0.	130
171	A	0.08	99	A	0.1	99	A	0.06	105	A	0.01	105	A	0.02	105	A	0.	105	A	0.	105	A	0.02	105
172	A	0.14	92	A	0.15	100	A	0.12	100	A	0.04	100	A	0.01	100	A	0.02	100	A	0.01	100	A	0.02	100
173	B	0.11	246	B	0.13	246	B	0.1	275	B	0.01	275	B	0.	275	B	0.	275	B	0.	275	B	0.	275
174	A	0.13	210	A	0.14	210	A	0.12	210	A	0.06	210	A	0.02	210	A	0.03	210	A	0.01	210	A	0.	210
175	B	0.1	115	B	0.12	115	B	0.1	115	B	0.05	115	B	0.02	115	B	0.02	115	B	0.01	115	B	0.02	115
176	A	0.16	145	A	0.19	145	A	0.13	145	A	0.06	145	A	0.02	145	A	0.02	145	A	0.01	145	A	0.	145
177	A	0.18	229	A	0.22	229	A	0.14	229	A	0.07	229	A	0.02	229	A	0.03	229	A	0.01	229	A	0.02	229
178	A	0.19	175	A	0.21	175	A	0.18	175	A	0.06	175	A	0.02	175	A	0.01	175	A	0.01	175	A	0.02	175
179	A	0.17	190	A	0.19	190	A	0.17	190	A	0.05	190	A	0.02	190	A	0.02	190	A	0.01	190	A	0.02	190
180	A	0.21	218	A	0.2	218	A	0.2	218	A	0.06	218	A	0.02	218	A	0.02	218	A	0.01	218	A	0.02	218
181	A	0.09	147	A	0.12	147	A	0.09	147	A	0.02	147	A	0.01	147	A	0.	147	A	0.	147	A	0.	147
182	A	0.08	133	A	0.11	133	A	0.08	133	A	0.02	133	A	0.01	133	A	0.	133	A	0.	133	A	0.	133
183	A	0.14	120	A	0.16	120	A	0.18	120	A	0.05	120	A	0.02	120	A	0.01	120	A	0.	120	A	0.	120
184	A	0.2	199	A	0.23	199	A	0.2	199	A	0.05	199	A	0.01	199	A	0.	199	A	0.01	199	A	0.02	199
185	A	0.21	215	A	0.26	215	A	0.22	215	A	0.05	215	A	0.01	215	A	0.	215	A	0.	215	A	0.02	215
186	B	0.16	172	B	0.18	174	B	0.13	174	B	0.05	174	B	0.	174	B	0.	174	B	0.	174	B	0.	174
187	A	0.19	176	A	0.23	178	A	0.16	178	A	0.05	178	A	0.	178	A	0.	178	A	0.	178	A	0.	178
188	A	0.15	175	A	0.16	175	A	0.14	175	A	0.08	175	A	0.02	175	A	0.02	175	A	0.01	175	A	0.	175
189	A	0.12	162	A	0.14	162	A	0.12	162	A	0.06	162	A	0.02	162	A	0.02	162	A	0.01	162	A	0.	162
190	A	0.11	144	A	0.13	144	A	0.11	144	A	0.06	144	A	0.02	144	A	0.02	144	A	0.01	144	A	0.02	144
191	A	0.1	144	A	0.12	144	A	0.1	144	A	0.05	144	A	0.01	144	A	0.02	144	A	0.01	144	A	0.02	144
192	A	0.08	144	A	0.1	144	A	0.09	144	A	0.04	144	A	0.03	144	A	0.02	144	A	0.01	144	A	0.02	144
193	A	0.12	176	A	0.15	176	A	0.11	176	A	0.07	176	A	0.03	176	A	0.03	176	A	0.01	176	A	0.02	176
194	A	0.15	198	A	0.18	198	A	0.14	198	A	0.08	198	A	0.03	198	A	0.02	198	A	0.01	198	A	0.02	198
195	A	0.12	180	A	0.14	180	A	0.11	180	A	0.06	180	A	0.02	180	A	0.02	180	A	0.01	180	A	0.02	180

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
196	A	0.1	198	A	0.12	198	A	0.08	198	A	0.04	198	A	0.02	198	A	0.02	198	A	0.01	198	A	0.02	198
197	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
198	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
199	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
200	B	0.28	4461	B	0.21	4473	B	0.17	4461	B	0.16	4475	B	0.11	4475	B	0.16	4475	B	0.14	4475	B	0.19	4475
201	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
202	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
203	A	0.08	108	A	0.09	108	A	0.05	134	A	0.02	134	A	0.	134	A	0.02	134	A	0.	134	A	0.	134
204	A	0.03	44	A	0.04	44	A	0.01	44	A	0.01	44	A	0.02	44	A	0.	44	A	0.	44	A	0.	44
205	A	0.21	217	A	0.24	219	A	0.1	219	A	0.02	219	A	0.02	219	A	0.	219	A	0.01	219	A	0.02	219
206	A	0.07	96	A	0.08	96	A	0.04	96	A	0.02	96	A	0.	96	A	0.02	96	A	0.	96	A	0.	96
207	A	0.08	54	B	0.08	62	B	0.06	62	B	0.02	62	B	0.	62	B	0.	62	B	0.	62	B	0.	62
208	B	0.1	201	B	0.11	201	B	0.06	239	B	0.02	239	B	0.	239	B	0.	239	B	0.	239	B	0.02	239
209	B	0.11	123	B	0.12	131	B	0.08	137	B	0.02	137	B	0.	137	B	0.02	137	B	0.	137	B	0.02	137
210	B	0.12	265	B	0.11	265	B	0.06	291	B	0.02	291	B	0.	291	B	0.	291	B	0.	291	B	0.02	291
211	B	0.19	435	B	0.18	444	B	0.13	473	B	0.02	473	B	0.	473	B	0.02	473	B	0.	473	B	0.	473
212	B	0.12	112	B	0.13	112	B	0.11	112	B	0.05	112	B	0.02	112	B	0.02	112	B	0.01	112	B	0.02	112
213	A	0.13	321	A	0.14	321	A	0.11	321	A	0.06	321	A	0.02	321	A	0.02	321	A	0.01	321	A	0.02	321
214	B	0.17	150	B	0.17	150	B	0.12	150	B	0.06	150	B	0.02	150	B	0.02	150	B	0.01	150	B	0.02	150
215	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
216	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
217	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
218	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
219	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
220	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
221	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
222	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
223	A	0.05	63	A	0.07	63	A	0.04	63	A	0.02	63	A	0.02	63	A	0.	63	A	0.	63	A	0.	63

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
224	A	0.06	196	A	0.08	196	A	0.04	196	A	0.01	196	A	0.02	196	A	0.02	196	A	0.	196	A	0.	196
225	B	0.17	576	B	0.17	1277	B	0.12	1277	B	0.05	1277	B	0.03	1277	B	0.02	1277	B	0.01	1277	B	0.	1277
226	A	0.04	124	A	0.05	124	A	0.03	129	A	0.01	129	A	0.02	129	A	0.	129	A	0.	129	A	0.	129
227	A	0.03	106	A	0.05	106	A	0.02	111	A	0.01	111	A	0.	111	A	0.	111	A	0.	111	A	0.	111
228	A	0.06	128	A	0.08	128	A	0.06	128	A	0.03	128	A	0.	128	A	0.01	128	A	0.	128	A	0.	128
229	A	0.11	253	A	0.12	253	A	0.08	253	A	0.03	253	A	0.	253	A	0.01	253	A	0.01	253	A	0.	253
230	A	0.14	279	A	0.15	279	A	0.1	279	A	0.03	279	A	0.02	279	A	0.01	279	A	0.01	279	A	0.02	279
231	A	0.15	302	A	0.15	302	A	0.1	302	A	0.04	302	A	0.	302	A	0.01	302	A	0.	302	A	0.	302
232	B	0.22	527	B	0.22	886	B	0.15	886	B	0.07	886	B	0.03	886	B	0.03	886	B	0.02	886	B	0.02	886
233	B	0.22	1193	B	0.22	2198	B	0.16	2198	B	0.09	2198	B	0.06	2198	B	0.08	2198	B	0.03	2198	B	0.03	2198
234	B	0.18	639	B	0.19	1912	B	0.13	1912	B	0.08	1912	B	0.05	1912	B	0.05	1912	B	0.02	1912	B	0.03	1912
235	B	0.24	600	B	0.24	1772	B	0.15	1772	B	0.09	1772	B	0.05	1772	B	0.03	1772	B	0.02	1772	B	0.03	1772
236	B	0.17	1494	B	0.18	1494	B	0.14	1495	B	0.13	1494	B	0.11	1494	B	0.11	1494	B	0.08	1495	B	0.14	1494
237	B	0.13	1619	B	0.14	1619	B	0.1	1619	B	0.11	1619	B	0.09	1619	B	0.08	1619	B	0.06	1619	B	0.09	1619
238	B	0.1	1573	B	0.1	1573	B	0.07	1573	B	0.05	1573	B	0.03	1573	B	0.05	1573	B	0.03	1573	B	0.05	1573
239	B	0.09	1520	B	0.1	1520	B	0.07	1520	B	0.05	1520	B	0.03	1520	B	0.03	1520	B	0.03	1520	B	0.03	1520
240	B	0.12	1761	B	0.12	1761	B	0.1	1761	B	0.08	1761	B	0.06	1761	B	0.05	1761	B	0.05	1761	B	0.06	1761
241	B	0.07	1190	B	0.08	1190	B	0.06	1190	B	0.05	1190	B	0.03	1190	B	0.05	1190	B	0.03	1190	B	0.05	1190
242	B	0.08	1496	B	0.09	1496	B	0.06	1496	B	0.05	1496	B	0.03	1496	B	0.05	1496	B	0.03	1496	B	0.05	1496
243	B	0.1	1578	B	0.12	1578	B	0.08	1578	B	0.09	1578	B	0.06	1578	B	0.08	1578	B	0.06	1578	B	0.09	1578
244	B	0.09	2617	B	0.11	2617	B	0.07	2617	B	0.06	2617	B	0.03	2617	B	0.05	2617	B	0.04	2617	B	0.06	2617
245	B	0.09	2870	B	0.09	2870	B	0.06	2870	B	0.06	2870	B	0.05	2870	B	0.04	2870	B	0.04	2870	B	0.06	2870
246	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
247	A	0.04	120	A	0.05	120	A	0.03	132	A	0.01	132	A	0.02	132	A	0.	132	A	0.	132	A	0.	132
248	A	0.03	102	A	0.06	102	A	0.03	114	A	0.01	114	A	0.	114	A	0.	114	A	0.	114	A	0.	114
249	A	0.07	136	A	0.08	136	A	0.06	136	A	0.02	136	A	0.02	136	A	0.	136	A	0.01	136	A	0.02	136
250	B	0.06	128	B	0.09	128	B	0.07	140	B	0.02	140	B	0.02	140	B	0.02	140	B	0.	140	B	0.	140
251	B	0.08	202	B	0.09	202	B	0.06	214	B	0.02	214	B	0.	214	B	0.	214	B	0.	214	B	0.	214

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
252	A	0.09	185	A	0.11	185	A	0.06	185	A	0.03	185	A	0.02	185	A	0.	185	A	0.	185	A	0.02	185
253	B	0.1	255	B	0.12	255	B	0.08	255	B	0.03	255	B	0.02	255	B	0.	255	B	0.	255	B	0.	255
254	A	0.13	342	A	0.13	342	A	0.09	342	A	0.04	342	A	0.01	342	A	0.02	342	A	0.01	342	A	0.	342
255	A	0.12	285	A	0.13	285	A	0.09	285	A	0.04	285	A	0.02	285	A	0.02	285	A	0.01	285	A	0.	285
256	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
257	A	0.11	334	A	0.12	334	A	0.08	334	A	0.03	334	A	0.	334	A	0.02	334	A	0.	334	A	0.02	334
258	A	0.11	302	A	0.13	302	A	0.08	302	A	0.03	302	A	0.01	302	A	0.	302	A	0.01	302	A	0.02	302
259	B	0.16	2076	B	0.16	1815	B	0.12	1815	B	0.08	1815	B	0.05	1815	B	0.08	1815	B	0.03	1815	B	0.02	1815
260	B	0.22	680	B	0.21	1092	B	0.14	1092	B	0.08	1092	B	0.05	1092	B	0.05	1092	B	0.02	1092	B	0.02	1092
261	B	0.33	1252	B	0.32	2819	B	0.21	2819	B	0.08	2819	B	0.03	2819	B	0.05	2819	B	0.02	2819	B	0.05	2819
262	B	1.32	56846	B	1.42	58449	B	1.42	56846	B	1.51	58449	B	1.47	58449	B	1.66	58449	B	1.38	58449	B	2.75	58449
263	B	0.27	368	B	0.27	372	B	0.21	367	B	0.22	371	B	0.14	372	B	0.16	371	B	0.12	367	B	0.14	368
264	A	0.02	73	A	0.04	73	A	0.02	73	A	0.01	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73
265	A	0.03	35	A	0.05	35	A	0.02	35	A	0.04	35	A	0.02	35	A	0.02	35	A	0.01	35	A	0.	35
266	B	0.09	657	B	0.1	409	B	0.08	409	B	0.06	409	B	0.03	409	B	0.05	409	B	0.02	409	B	0.03	409
267	A	0.11	315	A	0.13	315	A	0.1	315	A	0.05	315	A	0.02	315	A	0.02	315	A	0.01	315	A	0.	315
268	B	0.11	286	B	0.13	286	B	0.09	286	B	0.06	286	B	0.03	286	B	0.03	286	B	0.01	286	B	0.02	286
269	A	0.04	215	A	0.06	215	A	0.03	215	A	0.02	215	A	0.	215	A	0.	215	A	0.	215	A	0.	215
270	B	0.11	2587	B	0.11	1390	B	0.09	1390	B	0.07	1390	B	0.05	1390	B	0.06	1390	B	0.03	1390	B	0.05	1390
271	B	0.12	442	B	0.14	442	B	0.1	442	B	0.06	442	B	0.03	442	B	0.03	442	B	0.02	442	B	0.03	442
272	B	0.12	629	B	0.15	629	B	0.1	629	B	0.05	629	B	0.03	629	B	0.02	629	B	0.01	629	B	0.02	629
273	B	0.12	780	B	0.14	780	B	0.12	780	B	0.06	780	B	0.03	780	B	0.02	780	B	0.01	780	B	0.02	780
274	A	0.11	227	A	0.13	227	A	0.11	227	A	0.07	227	A	0.03	227	A	0.02	227	A	0.01	227	A	0.	227
275	A	0.1	269	A	0.12	269	A	0.09	269	A	0.05	269	A	0.02	269	A	0.02	269	A	0.01	269	A	0.	269
276	A	0.12	338	A	0.13	338	A	0.1	338	A	0.05	338	A	0.03	338	A	0.02	338	A	0.01	338	A	0.02	338
277	A	0.11	321	A	0.12	321	A	0.1	321	A	0.05	321	A	0.03	321	A	0.03	321	A	0.01	321	A	0.02	321
278	A	0.11	308	A	0.12	308	A	0.09	308	A	0.05	308	A	0.03	308	A	0.03	308	A	0.01	308	A	0.02	308
279	A	0.11	321	A	0.15	321	A	0.1	321	A	0.07	321	A	0.03	321	A	0.03	321	A	0.01	321	A	0.02	321

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
280	A	0.12	340	A	0.14	340	A	0.11	340	A	0.06	340	A	0.03	340	A	0.03	340	A	0.01	340	A	0.02	340
281	C	0.32	2136	C	0.29	2136	C	0.22	2145	C	0.21	2145	C	0.16	2145	C	0.19	2145	C	0.14	2145	C	0.2	2145
282	C	0.18	1715	C	0.21	1715	C	0.14	1727	C	0.15	1727	C	0.11	1727	C	0.14	1727	C	0.1	1727	C	0.14	1727
283	C	0.2	2864	C	0.23	2864	C	0.17	2873	C	0.16	2873	C	0.12	2873	C	0.14	2873	C	0.11	2873	C	0.14	2873
284	C	0.12	1987	C	0.14	1987	C	0.08	1998	C	0.08	1998	C	0.06	1998	C	0.08	1998	C	0.05	1998	C	0.08	1998
285	C	0.19	1181	C	0.23	1181	C	0.16	1190	C	0.14	1193	C	0.11	1193	C	0.14	1193	C	0.09	1189	C	0.14	1189
286	A	0.11	431	A	0.13	431	A	0.08	431	A	0.08	431	A	0.06	431	A	0.05	431	A	0.04	431	A	0.05	431
287	C	0.22	1216	C	0.24	1216	C	0.16	1219	C	0.18	1231	C	0.14	1231	C	0.16	1231	C	0.1	1231	C	0.17	1231
288	B	0.47	4581	B	0.5	4649	B	0.39	7794	B	0.42	7910	B	0.36	7910	B	0.41	7910	B	0.33	7910	B	0.58	7794
289	B	0.34	2636	B	0.35	2672	B	0.31	3831	B	0.36	3883	B	0.27	3883	B	0.3	3883	B	0.22	3883	B	0.16	3831
290	B	0.49	2513	B	0.49	2547	B	0.4	4359	B	0.44	4419	B	0.36	4419	B	0.47	4419	B	0.36	4419	B	0.52	4359
291	B	0.32	10560	B	0.33	10704	B	0.28	13223	B	0.31	13399	B	0.25	13399	B	0.32	13399	B	0.23	13399	B	0.31	13223
292	B	0.23	2523	B	0.23	2554	B	0.18	2523	B	0.22	2559	B	0.16	2559	B	0.17	2559	B	0.13	2523	B	0.11	2523
293	B	0.4	3440	B	0.4	3490	B	0.28	3440	B	0.29	3490	B	0.19	3490	B	0.22	3490	B	0.17	3440	B	0.22	3442
294	A	0.05	47	A	0.07	55	A	0.04	55	A	0.03	55	A	0.01	55	A	0.	55	A	0.	55	A	0.	55
295	A	0.06	69	A	0.07	77	A	0.05	77	A	0.03	77	A	0.02	77	A	0.	77	A	0.	77	A	0.	77
296	A	0.09	68	A	0.1	76	A	0.06	76	A	0.03	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76
297	A	0.06	132	A	0.07	132	A	0.04	143	A	0.01	143	A	0.02	143	A	0.	143	A	0.	143	A	0.	143
298	A	0.16	304	A	0.21	407	A	0.13	407	A	0.08	407	A	0.05	407	A	0.05	407	A	0.02	407	A	0.02	407
299	B	0.16	766	B	0.17	1294	B	0.14	1294	B	0.07	1294	B	0.03	1294	B	0.05	1294	B	0.02	1294	B	0.02	1294
300	A	0.04	100	A	0.06	100	A	0.03	100	A	0.01	100	A	0.	100	A	0.	100	A	0.	100	A	0.	100
301	A	0.04	92	A	0.06	92	A	0.03	92	A	0.01	92	A	0.	92	A	0.	92	A	0.	92	A	0.	92
302	A	0.1	263	A	0.11	263	A	0.05	263	A	0.02	263	A	0.	263	A	0.02	263	A	0.01	263	A	0.02	263
303	A	0.14	216	A	0.15	218	A	0.08	218	A	0.03	218	A	0.02	218	A	0.	218	A	0.01	218	A	0.	218
304	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
305	B	0.11	129	B	0.1	131	B	0.06	131	B	0.02	131	B	0.	131	B	0.	131	B	0.	131	B	0.02	131
306	A	0.14	199	A	0.13	199	A	0.06	237	A	0.02	237	A	0.02	237	A	0.	237	A	0.	237	A	0.	237
307	A	0.11	169	A	0.13	169	A	0.06	189	A	0.02	189	A	0.	189	A	0.02	189	A	0.	189	A	0.02	189

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Table 65 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
308	B	0.1	689	B	0.11	689	B	0.05	689	B	0.03	689	B	0.	689	B	0.	689	B	0.01	689	B	0.	689
309	A	0.1	156	A	0.12	156	A	0.07	156	A	0.04	156	A	0.02	156	A	0.02	156	A	0.01	156	A	0.	156
310	A	0.12	297	A	0.13	297	A	0.08	297	A	0.04	297	A	0.02	297	A	0.02	297	A	0.01	297	A	0.02	297
311	A	0.18	240	A	0.2	240	A	0.09	240	A	0.04	240	A	0.03	240	A	0.03	240	A	0.01	240	A	0.	240
312	B	0.24	1080	B	0.25	1080	B	0.13	1080	B	0.05	1080	B	0.05	1080	B	0.05	1080	B	0.02	1080	B	0.02	1080
313	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.64 $4_Trig_functions\4.1aSine\4.1.2.3(gsin)^p(a+bsin)^m(c+dsin)^n$

Table 66: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	147	A	0.04	147	A	0.02	186	A	0.01	186	A	0.	186	A	0.	186	A	0.	186	A	0.	186
2	A	0.05	86	A	0.07	96	A	0.04	96	A	0.02	96	A	0.	96	A	0.02	96	A	0.	96	A	0.	96
3	A	0.18	187	A	0.16	187	B	0.13	248	B	0.13	246	B	0.06	246	B	0.08	248	B	0.06	248	B	0.06	248
4	A	0.18	117	A	0.15	117	A	0.13	117	A	0.11	117	A	0.09	117	A	0.09	117	A	0.06	117	A	0.05	117
5	A	0.13	74	A	0.13	73	A	0.11	74	A	0.1	73	A	0.06	74	A	0.08	73	A	0.05	73	A	0.05	74
6	B	0.29	1027	B	0.27	1027	B	0.21	1965	B	0.2	1965	B	0.14	1965	B	0.17	1965	B	0.1	1965	B	0.12	1965
7	B	0.17	622	B	0.19	621	B	0.14	1658	B	0.14	1657	B	0.11	1657	B	0.12	1657	B	0.07	1658	B	0.08	1657
8	A	0.1	616	A	0.1	616	A	0.06	616	A	0.05	616	A	0.03	616	A	0.05	616	A	0.03	616	A	0.03	616
9	A	0.09	610	A	0.11	610	A	0.06	610	A	0.05	610	A	0.03	610	A	0.05	610	A	0.03	610	A	0.05	610
10	B	0.38	6623	B	0.4	6817	B	0.24	6623	B	0.23	6817	B	0.16	6817	B	0.19	6817	B	0.15	6623	B	0.19	6815
11	B	0.54	26801	B	0.57	26936	B	0.46	79826	B	0.39	80026	B	0.4	80221	B	0.47	80221	B	0.4	80207	B	0.64	80015

2.65 $4_Trig_functions\4.1aSine\4.1.3.1(a+bsin)^m(c+dsin)^n(A+Bsin)$

Table 67: Breakdown of results for each integral

#	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
2	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
3	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
4	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
6	B	0.04	463	B	0.05	463	B	0.02	563	B	0.01	563	B	0.	563	B	0.	563	B	0.	563	B	0.	563
7	B	0.03	365	B	0.05	365	B	0.02	433	B	0.01	433	B	0.02	433	B	0.	433	B	0.	433	B	0.	433
8	B	0.02	186	B	0.04	186	B	0.02	209	B	0.01	209	B	0.	209	B	0.02	209	B	0.	209	B	0.	209
9	B	0.19	249	B	0.21	249	B	0.16	249	B	0.04	249	B	0.02	249	B	0.02	249	B	0.01	249	B	0.02	249
10	A	0.25	249	A	0.26	249	A	0.21	249	A	0.04	249	A	0.02	249	A	0.01	249	A	0.01	249	A	0.02	249
11	A	0.27	293	A	0.29	293	A	0.24	293	A	0.04	293	A	0.02	293	A	0.03	293	A	0.01	293	A	0.02	293
12	B	0.2	449	B	0.2	348	B	0.15	348	B	0.06	348	B	0.02	348	B	0.03	348	B	0.01	348	B	0.02	348
13	B	0.25	249	B	0.26	249	B	0.22	249	B	0.05	249	B	0.03	249	B	0.01	249	B	0.01	249	B	0.	249
14	A	0.07	57	A	0.09	57	A	0.06	57	A	0.05	57	A	0.02	57	A	0.02	57	A	0.01	57	A	0.	57
15	B	0.22	549	B	0.23	447	B	0.18	447	B	0.06	447	B	0.02	447	B	0.03	447	B	0.02	447	B	0.02	447
16	A	0.18	198	A	0.18	198	A	0.14	198	A	0.05	198	A	0.01	198	A	0.03	198	A	0.01	198	A	0.02	198
17	A	0.09	97	A	0.11	97	A	0.08	97	A	0.05	97	A	0.03	97	A	0.02	97	A	0.01	97	A	0.02	97
18	B	0.15	321	B	0.15	321	B	0.11	321	B	0.06	321	B	0.02	321	B	0.02	321	B	0.01	321	B	0.02	321
19	A	0.07	129	A	0.07	129	A	0.04	129	A	0.03	129	A	0.02	129	A	0.03	129	A	0.02	129	A	0.02	129
20	A	0.06	107	A	0.07	107	A	0.03	107	A	0.03	107	A	0.02	107	A	0.03	107	A	0.02	107	A	0.02	107
21	B	0.07	334	B	0.08	344	B	0.05	344	B	0.04	346	B	0.03	344	B	0.03	344	B	0.02	346	B	0.03	346
22	A	0.08	109	A	0.08	109	A	0.04	109	A	0.03	109	A	0.03	109	A	0.03	109	A	0.02	109	A	0.02	109
23	A	0.08	99	A	0.09	99	A	0.05	99	A	0.04	99	A	0.02	99	A	0.03	99	A	0.02	99	A	0.03	99
24	B	0.09	388	B	0.1	388	B	0.06	388	B	0.05	388	B	0.03	388	B	0.05	388	B	0.03	388	B	0.03	388
25	A	0.1	153	A	0.11	153	A	0.06	153	A	0.05	153	A	0.04	153	A	0.03	153	A	0.02	153	A	0.03	153
26	A	0.1	280	A	0.11	288	A	0.07	288	A	0.06	288	A	0.03	288	A	0.05	288	A	0.02	288	A	0.02	288
27	B	0.18	402	B	0.17	403	B	0.13	402	B	0.13	403	B	0.08	403	B	0.11	403	B	0.07	402	B	0.06	403

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Table 67 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
28	A	0.34	147	A	0.34	147	A	0.3	147	A	0.3	147	A	0.23	147	A	0.27	147	A	0.19	147	A	0.09	147
29	B	0.21	495	B	0.22	494	B	0.18	495	B	0.17	494	B	0.12	494	B	0.16	494	B	0.1	494	B	0.09	495
30	A	0.24	217	A	0.26	217	A	0.22	217	A	0.2	217	A	0.16	217	A	0.19	217	A	0.14	217	A	0.09	217
31	B	0.29	591	B	0.31	590	B	0.26	591	B	0.27	590	B	0.2	590	B	0.24	590	B	0.16	591	B	0.09	590
32	B	0.19	846	B	0.19	845	B	0.16	846	B	0.14	845	B	0.09	845	B	0.14	845	B	0.09	846	B	0.09	845
33	B	0.26	834	B	0.28	832	B	0.24	834	B	0.22	832	B	0.19	832	B	0.22	832	B	0.15	832	B	0.08	832
34	B	0.27	311	B	0.29	309	B	0.24	311	B	0.23	309	B	0.19	309	B	0.2	309	B	0.15	309	B	0.08	309
35	A	2.98	259	A	2.2	259	A	2.16	259	A	2.84	259	A	2.23	259	A	2.35	259	A	1.72	259	A	0.2	259
36	B	0.23	671	B	0.24	671	B	0.2	671	B	0.19	671	B	0.14	671	B	0.17	671	B	0.11	671	B	0.11	671
37	B	0.85	560	B	0.89	560	B	0.84	560	B	0.95	560	B	0.78	560	B	0.82	560	B	0.59	560	B	0.16	560
38	B	0.16	431	B	0.16	433	B	0.15	429	B	0.13	435	B	0.09	435	B	0.11	433	B	0.08	429	B	0.08	431
39	B	0.23	1206	B	0.26	1219	B	0.19	1206	B	0.19	1219	B	0.14	1219	B	0.19	1219	B	0.12	1206	B	0.12	1206
40	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
41	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
43	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
45	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
48	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
49	A	0.02	89	A	0.04	89	A	0.01	103	A	0.01	103	A	0.	103	A	0.	103	A	0.	103	A	0.02	103
50	A	0.06	99	A	0.07	99	A	0.03	99	A	0.02	99	A	0.02	99	A	0.02	99	A	0.	99	A	0.02	99
51	A	0.05	95	A	0.07	103	A	0.03	103	A	0.02	103	A	0.	103	A	0.02	103	A	0.	103	A	0.02	103
52	A	0.15	155	A	0.16	155	A	0.14	155	A	0.05	155	A	0.02	155	A	0.02	155	A	0.01	155	A	0.02	155
53	A	0.13	131	A	0.15	131	A	0.13	131	A	0.04	131	A	0.02	131	A	0.	131	A	0.01	131	A	0.	131
54	A	0.07	278	A	0.08	278	A	0.05	308	A	0.01	308	A	0.	308	A	0.	308	A	0.	308	A	0.	308
55	B	0.08	414	B	0.1	414	B	0.06	478	B	0.01	478	B	0.	478	B	0.	478	B	0.	478	B	0.	478

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Table 67 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
56	B	0.12	524	B	0.14	409	B	0.08	409	B	0.04	409	B	0.03	409	B	0.02	409	B	0.01	409	B	0.02	409
57	B	0.22	2482	B	0.19	2650	B	0.17	2650	B	0.08	2650	B	0.03	2650	B	0.04	2650	B	0.02	2650	B	0.02	2650
58	B	0.22	2641	B	0.22	2803	B	0.19	2803	B	0.08	2803	B	0.03	2803	B	0.03	2803	B	0.02	2803	B	0.03	2803
59	B	0.17	606	B	0.16	606	B	0.13	606	B	0.06	606	B	0.02	606	B	0.03	606	B	0.01	606	B	0.	606
60	B	0.2	1049	B	0.21	1084	B	0.17	1084	B	0.08	1084	B	0.03	1084	B	0.05	1084	B	0.02	1084	B	0.03	1084
61	B	0.25	2918	B	0.26	3082	B	0.22	3082	B	0.1	3082	B	0.05	3082	B	0.06	3082	B	0.03	3082	B	0.05	3082
62	A	0.09	191	A	0.09	191	A	0.04	191	A	0.03	191	A	0.02	191	A	0.02	191	A	0.02	191	A	0.02	191
63	B	0.13	640	B	0.13	604	B	0.08	604	B	0.06	604	B	0.03	604	B	0.04	604	B	0.03	604	B	0.03	604
64	A	0.08	355	A	0.09	355	A	0.04	355	A	0.03	355	A	0.01	355	A	0.02	355	A	0.02	355	A	0.03	355
65	B	0.12	963	B	0.13	963	B	0.08	963	B	0.06	963	B	0.05	963	B	0.05	963	B	0.03	963	B	0.03	963
66	B	0.12	1118	B	0.13	1118	B	0.06	1118	B	0.05	1118	B	0.05	1118	B	0.05	1118	B	0.03	1118	B	0.03	1118
67	B	0.1	636	B	0.1	652	B	0.07	652	B	0.06	652	B	0.03	652	B	0.05	652	B	0.03	652	B	0.03	652
68	B	0.17	7322	B	0.16	6587	B	0.1	6587	B	0.09	6587	B	0.08	6587	B	0.08	6587	B	0.06	6587	B	0.08	6587
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	B	14.62	824060	B	25.78	828021	B	25.39	824057	B	30.23	827058	B	43.98	828049	B	46.53	828052	B	46.44	827033	B	107.95	827033
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.66 $4_Trig_functions\backslash 4.1aSine\backslash 4.1.4.1(a+bsin)^m(A+Bsin+Csin^2)$

Table 68: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
2	B	0.02	51	B	0.04	51	A	0.02	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
3	B	0.02	44	B	0.04	44	A	0.02	19	A	0.	19	A	0.	19	A	0.02	19	A	0.	19	A	0.	19
4	A	0.05	34	B	0.07	51	A	0.04	19	A	0.02	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19

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Table 68 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.67 $4_Trig_functions\backslash 4.1aSine\backslash 4.1.4.2(a+bsin)^m(c+dsin)^n(A+Bsin+Csin^2)$

Table 69: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	B 0.28 476	B 0.29 482	B 0.22 473	B 0.22 482	B 0.16 479	B 0.19 479	B 0.12 476	B 0.08 473
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.68 $4_Trig_functions\backslash 4.1aSine\backslash 4.1.7(dtrig)^m(a+b(csin)^n)^p$

Table 70: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.06 79	B 0.07 79	B 0.04 79	B 0.03 79	B 0.02 79	B 0.02 79	B 0.02 79	B 0.03 79
2	C 0.21 388	C 0.24 372	C 0.22 744	C 0.22 744	C 0.19 712	C 0.22 712	C 0.15 744	C 0.12 744
3	A 0.32 57	A 0.37 57	A 0.32 57	A 0.34 57	A 0.28 57	A 0.33 57	A 0.24 57	A 0.11 57
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 70 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
6	A	0.04	45	A	0.06	45	A	0.04	45	A	0.02	45	A	0.02	45	A	0.	45	A	0.	45	A	0.	45
7	A	0.04	35	A	0.06	35	A	0.03	35	A	0.02	35	A	0.02	35	A	0.	35	A	0.	35	A	0.	35
8	A	0.04	30	A	0.05	30	A	0.03	30	A	0.01	30	A	0.	30	A	0.02	30	A	0.	30	A	0.	30
9	A	0.02	24	A	0.04	24	A	0.02	24	A	0.01	24	A	0.02	24	A	0.	24	A	0.	24	A	0.	24
10	A	0.02	65	A	0.04	65	A	0.02	70	A	0.	70	A	0.02	70	A	0.	70	A	0.	70	A	0.	70
11	A	0.06	56	A	0.08	76	A	0.04	92	A	0.01	92	A	0.	92	A	0.	92	A	0.	92	A	0.	92
12	A	0.02	73	A	0.04	73	A	0.02	77	A	0.	77	A	0.	77	A	0.	77	A	0.	77	A	0.02	77
13	B	0.12	255	B	0.13	255	B	0.09	255	B	0.04	255	B	0.02	255	B	0.03	255	B	0.01	255	B	0.02	255
14	A	0.05	50	A	0.08	50	A	0.05	50	A	0.03	50	A	0.02	50	A	0.03	50	A	0.01	50	A	0.	50
15	A	0.1	138	A	0.13	138	A	0.1	138	A	0.04	138	A	0.02	138	A	0.02	138	A	0.01	138	A	0.02	138
16	A	0.06	77	A	0.08	77	A	0.05	77	A	0.02	77	A	0.02	77	A	0.02	77	A	0.01	77	A	0.	77
17	B	0.07	363	B	0.1	273	B	0.07	273	B	0.03	273	B	0.02	273	B	0.02	273	B	0.01	273	B	0.02	273
18	B	0.12	367	A	0.15	277	A	0.14	277	A	0.05	277	A	0.03	277	A	0.03	277	A	0.01	277	A	0.02	277
19	B	0.09	705	B	0.1	431	B	0.12	431	B	0.03	431	B	0.02	431	B	0.02	431	B	0.01	431	B	0.	431
20	B	0.07	60	B	0.11	60	B	0.04	60	B	0.04	60	B	0.03	60	B	0.03	60	B	0.02	60	B	0.02	60
21	A	0.05	35	A	0.09	35	A	0.04	35	A	0.03	35	A	0.02	35	A	0.01	35	A	0.01	35	A	0.02	35
22	B	0.07	102	B	0.07	102	B	0.05	102	B	0.04	102	B	0.03	102	B	0.02	102	B	0.02	102	B	0.02	102
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
28	C	0.1	106	C	0.11	106	C	0.07	108	C	0.03	108	C	0.02	108	C	0.03	108	C	0.01	108	C	0.02	108
29	C	0.12	98	C	0.17	98	C	0.09	100	C	0.06	100	C	0.03	100	C	0.02	100	C	0.01	100	C	0.02	100
30	C	0.08	83	C	0.12	83	C	0.06	85	C	0.02	85	C	0.	85	C	0.02	85	C	0.01	85	C	0.02	85
31	B	0.13	518	B	0.16	518	B	0.11	518	B	0.07	518	B	0.04	518	B	0.05	518	B	0.02	518	B	0.03	518
32	B	0.13	585	B	0.17	585	B	0.12	585	B	0.06	585	B	0.04	585	B	0.03	585	B	0.01	585	B	0.02	585
33	B	0.19	2278	B	0.18	3803	B	0.14	3803	B	0.1	3803	B	0.08	3803	B	0.09	1926	B	0.04	1926	B	0.06	1926

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Table 70 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
34	B 0.18 2342	B 0.21 4129	B 0.2 4129	B 0.11 4129	B 0.08 4129	B 0.08 3805	B 0.03 3805	B 0.06 3805
35	B 0.26 4063	B 0.18 583	B 0.14 583	B 0.08 583	B 0.06 583	B 0.08 583	B 0.03 583	B 0.05 583
36	B 0.21 1153	B 0.11 503	B 0.1 503	B 0.04 503	B 0.04 503	B 0.03 503	B 0.02 503	B 0.03 503
37	B 0.25 5557	B 0.26 19656	B 0.21 19656	B 0.17 19656	B 0.14 19656	B 0.16 18125	B 0.06 18125	B 0.09 18125
38	B 0.33 5595	B 0.34 20510	B 0.3 20510	B 0.2 20510	B 0.14 20510	B 0.17 20236	B 0.06 20236	B 0.09 20236
39	C 0.35 163	C 0.33 163	C 0.23 163	C 0.19 163	C 0.09 163	C 0.17 163	C 0.08 163	C 0.11 163
40	F 0 0	F 0 0	C 0.43 681	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	B 0.4 399	B 0.38 399	B 0.32 399	B 0.23 399	B 0.12 399	B 0.12 399	B 0.1 399	B 0.12 399
42	C 0.06 109	C 0.08 109	C 0.05 111	C 0.02 111	C 0.02 111	C 0.02 111	C 0.01 111	C 0.02 111
43	C 0.07 85	C 0.07 85	C 0.05 86	C 0.02 86	C 0.02 86	C 0.02 86	C 0.01 86	C 0. 86
44	C 0.06 133	C 0.08 133	C 0.06 82	C 0.04 82	C 0.02 82	C 0.03 82	C 0.02 82	C 0.03 82
45	B 0.18 255	B 0.17 255	B 0.13 255	B 0.13 255	B 0.09 255	B 0.11 255	B 0.07 255	B 0.11 254
46	A 0.03 14	A 0.05 14	A 0.02 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
47	B 0.05 66	B 0.07 66	B 0.05 66	B 0.03 66	B 0.01 66	B 0. 66	B 0.01 66	B 0.02 66
48	A 0.03 25	A 0.06 25	A 0.04 25	A 0.02 25	A 0. 25	A 0.02 25	A 0.01 25	A 0.02 25
49	A 0.03 20	A 0.05 20	A 0.03 20	A 0.01 20	A 0. 20	A 0.02 20	A 0. 20	A 0.02 20
50	A 0.03 20	A 0.05 20	A 0.04 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
51	A 0.05 70	A 0.07 70	A 0.03 70	A 0.01 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70
52	A 0.06 104	A 0.08 113	A 0.05 130	A 0.02 130	A 0. 130	A 0. 130	A 0. 130	A 0. 130
53	A 0.06 87	A 0.08 95	B 0.04 100	B 0.02 100	B 0. 100	B 0.02 100	B 0. 100	B 0. 100
54	A 0.07 76	A 0.09 85	B 0.05 90	B 0.02 90	B 0. 90	B 0. 90	B 0. 90	B 0.02 90
55	B 0.07 101	B 0.1 110	B 0.05 121	B 0.02 121	B 0. 121	B 0. 121	B 0. 121	B 0. 121
56	B 0.06 202	B 0.08 182	B 0.06 182	B 0.04 182	B 0.02 182	B 0.02 182	B 0.01 182	B 0.02 182
57	A 0.04 38	A 0.07 38	A 0.05 38	A 0.02 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38
58	A 0.05 75	A 0.07 62	A 0.06 62	A 0.02 62	A 0.02 62	A 0. 62	A 0. 62	A 0. 62
59	B 0.07 204	B 0.09 204	B 0.06 204	B 0.04 204	B 0.03 204	B 0.02 204	B 0.01 204	B 0.02 204
60	A 0.05 65	A 0.07 76	A 0.06 76	A 0.03 76	A 0.02 76	A 0.02 76	A 0. 76	A 0. 76
61	A 0.02 39	A 0.04 39	A 0.02 39	A 0.02 39	A 0. 39	A 0.02 39	A 0. 39	A 0. 39

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Table 70 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
62	A	0.04	62	A	0.05	62	A	0.03	62	A	0.02	62	A	0.02	62	A	0.	62	A	0.	62	A	0.	62
63	B	0.1	328	B	0.12	328	B	0.05	328	B	0.05	328	B	0.03	328	B	0.03	328	B	0.03	328	B	0.03	328
64	B	0.09	986	B	0.13	986	B	0.07	986	B	0.06	986	B	0.05	986	B	0.05	986	B	0.03	986	B	0.05	986
65	A	0.1	281	A	0.1	281	A	0.06	281	A	0.06	281	A	0.03	281	A	0.05	281	A	0.03	281	A	0.05	283
66	A	0.06	98	A	0.1	98	A	0.04	98	A	0.04	98	A	0.02	98	A	0.03	98	A	0.02	98	A	0.02	98
67	B	0.11	1021	B	0.13	1021	B	0.08	1021	B	0.08	1021	B	0.05	1021	B	0.06	1021	B	0.04	1021	B	0.06	1021
68	A	0.07	84	A	0.1	84	A	0.04	84	A	0.03	84	A	0.02	84	A	0.02	84	A	0.02	84	A	0.03	84
69	B	0.14	1026	B	0.15	1026	B	0.09	1026	B	0.08	1026	B	0.06	1026	B	0.06	1026	B	0.05	1026	B	0.06	1026
70	A	0.12	581	A	0.13	581	A	0.09	581	A	0.08	581	A	0.06	581	A	0.06	581	A	0.05	581	A	0.06	581
71	B	0.07	579	B	0.08	579	B	0.06	579	B	0.04	579	B	0.02	579	B	0.03	579	B	0.02	579	B	0.03	582
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
74	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	A	0.13	278	A	0.14	278	A	0.08	278	A	0.02	278	A	0.	278	A	0.	278	A	0.01	278	A	0.	278
76	A	0.12	141	A	0.14	141	A	0.07	141	A	0.02	141	A	0.	141	A	0.	141	A	0.01	141	A	0.02	141
77	A	0.15	374	A	0.17	374	A	0.09	374	A	0.04	374	A	0.03	374	A	0.02	374	A	0.01	374	A	0.02	374
78	C	0.16	123	C	0.16	123	C	0.09	125	C	0.04	125	C	0.02	125	C	0.02	125	C	0.02	125	C	0.02	125
79	C	0.16	164	C	0.16	164	C	0.11	166	C	0.04	166	C	0.03	166	C	0.01	166	C	0.02	166	C	0.02	166
80	C	0.23	346	C	0.21	346	C	0.12	347	C	0.06	347	C	0.03	347	C	0.05	347	C	0.02	347	C	0.03	347
81	A	0.2	327	A	0.21	327	A	0.11	327	A	0.03	327	A	0.02	327	A	0.	327	A	0.01	327	A	0.02	327
82	B	0.26	1276	B	0.27	1643	B	0.19	1645	B	0.09	1645	B	0.06	1645	B	0.06	1645	B	0.04	1645	B	0.08	1645
83	B	0.14	880	B	0.16	818	B	0.13	818	B	0.08	818	B	0.05	818	B	0.05	818	B	0.02	818	B	0.02	818
84	B	0.15	581	B	0.18	559	B	0.14	559	B	0.06	559	B	0.04	559	B	0.03	559	B	0.01	559	B	0.03	559
85	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
89	A	0.08	66	A	0.11	66	A	0.06	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.01	66	A	0.02	66

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Table 70 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
90	A	0.09	82	A	0.11	82	A	0.07	82	A	0.03	82	A	0.02	82	A	0.	82	A	0.01	82	A	0.	82
91	A	0.08	56	A	0.11	56	A	0.05	56	A	0.04	56	A	0.03	56	A	0.03	56	A	0.02	56	A	0.03	56
92	A	0.08	92	A	0.11	92	A	0.06	92	A	0.04	92	A	0.03	92	A	0.03	92	A	0.02	92	A	0.02	92
93	A	0.08	59	A	0.09	59	A	0.07	59	A	0.04	59	A	0.02	59	A	0.02	59	A	0.01	59	A	0.03	59
94	A	0.1	236	A	0.1	236	A	0.06	236	A	0.05	238	A	0.03	236	A	0.05	236	A	0.03	236	A	0.05	236
95	B	0.13	2402	B	0.16	2402	B	0.09	2402	B	0.08	2402	B	0.05	2402	B	0.08	2402	B	0.05	2402	B	0.05	2402
96	A	0.08	333	A	0.09	333	A	0.06	333	A	0.04	333	A	0.03	333	A	0.03	333	A	0.02	334	A	0.03	334
97	B	0.16	1220	B	0.16	1220	B	0.11	1220	B	0.1	1220	B	0.08	1220	B	0.09	1220	B	0.07	1224	B	0.06	1220
98	C	0.12	60	C	0.19	60	C	0.07	60	C	0.05	60	A	0.02	74	A	0.02	74	A	0.01	74	A	0.02	74
99	A	0.1	367	A	0.11	367	A	0.08	367	A	0.06	367	A	0.03	367	A	0.03	367	A	0.03	367	A	0.05	367
100	B	0.16	2639	B	0.17	2639	B	0.1	2639	B	0.09	2639	B	0.06	2639	B	0.09	2639	B	0.08	2639	B	0.11	2639
101	B	0.1	823	B	0.13	823	B	0.07	823	B	0.06	823	B	0.05	823	B	0.06	823	B	0.04	823	B	0.06	823
102	A	0.1	643	A	0.1	643	A	0.07	643	A	0.05	643	A	0.03	643	A	0.04	643	A	0.03	643	A	0.03	643
103	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
104	A	0.09	126	A	0.1	126	A	0.06	126	A	0.03	126	A	0.02	126	A	0.02	126	A	0.01	126	A	0.	126
105	F	0	0	F	0	0	C	0.11	501	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
106	F	0	0	F	0	0	A	0.06	40	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
107	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
108	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
109	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
110	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.69 $4_Trig_functions\4.1aSine\4.1.8(a+bsin)^m(c+dtrig)^n$

Table 71: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.05 79	A 0.08 79	A 0.04 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.01 79	A 0.02 79
2	A 0.07 34	A 0.08 34	A 0.04 34	A 0.02 34	A 0.01 34	A 0.02 34	A 0.01 34	A 0.03 34
3	B 0.07 116	B 0.08 116	B 0.04 116	B 0.02 116	B 0.02 116	B 0.01 116	B 0.01 116	B 0.02 116
4	A 0.06 75	A 0.08 75	A 0.06 75	A 0.03 75	A 0.01 75	A 0.02 75	A 0.01 75	A 0.02 75
5	A 0.06 94	A 0.08 94	A 0.06 94	A 0.03 94	A 0.02 94	A 0.02 94	A 0.01 94	A 0.02 94

2.70 $4_Trig_functions\4.1aSine\4.1.9trig^m(a+bsin^n+csin^{(2n)})^p$

Table 72: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	B 0.17 1181	B 0.19 1157	B 0.16 1157	B 0.13 1157	B 0.1 1157	B 0.11 1157	B 0.05 1157	B 0.05 1157
2	A 0.1 216	A 0.13 216	A 0.1 216	A 0.06 216	A 0.05 216	A 0.06 216	A 0.02 216	A 0.03 216
3	B 0.11 610	B 0.14 610	B 0.1 610	B 0.07 610	B 0.06 610	B 0.06 610	B 0.03 610	B 0.03 610
4	A 0.08 36	A 0.07 36	A 0.05 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
5	A 0.05 6	A 0.07 6	A 0.04 6	A 0.01 6	A 0. 6	A 0. 6	A 0. 6	A 0. 6

2.71 $4_Trig_functions\4.1bCosine\4.1.0(acos)^m(btrg)^n$

Table 73: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0. 11	A 0.02 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
2	A 0. 27	A 0.02 27	A 0. 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
3	A 0. 22	A 0.02 22	A 0. 30	A 0. 30	A 0. 30	A 0.02 30	A 0. 30	A 0. 30

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Table 73 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
4	A 0.02 58	A 0.03 58	A 0.01 75	A 0. 75	A 0. 75	A 0. 75	A 0. 75	A 0. 75
5	B 0.06 182	B 0.06 182	B 0.04 182	B 0.04 182	B 0.01 182	B 0.03 182	B 0.03 182	B 0.03 182
6	C 0.05 18	C 0.04 18	C 0.01 18	C 0.02 18	B 0.02 143	B 0.02 143	B 0.01 143	B 0.02 143
7	A 0.12 218	A 0.09 218	A 0.06 218	A 0.05 218	A 0.05 218	A 0.05 218	A 0.04 218	A 0.06 218
8	C 0.11 54	C 0.07 54	C 0.04 54	C 0.04 54	B 0.02 149	B 0.03 149	B 0.02 149	B 0.02 149
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	C 0.27 189	C 0.28 189	C 0.27 357	C 0.24 357	C 0.22 357	C 0.25 357	C 0.18 357	C 0.08 357
15	A 0.14 29	A 0.14 29	A 0.12 29	A 0.11 29	A 0.1 29	A 0.11 29	A 0.08 29	A 0.05 29
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	B 0.11 203	B 0.09 203	B 0.06 203	B 0.05 203	B 0.05 203	B 0.06 203	B 0.04 203	B 0.06 203
20	A 0.08 244	A 0.08 244	A 0.05 244	A 0.04 244	A 0.03 244	A 0.05 244	A 0.04 244	A 0.05 244
21	A 0.06 218	A 0.06 218	A 0.03 218	A 0.03 218	A 0.03 218	A 0.03 218	A 0.02 218	A 0.03 218
22	B 0.06 205	B 0.06 205	B 0.03 205	B 0.03 205	B 0.03 205	B 0.02 205	B 0.02 205	B 0.03 205
23	B 0.11 256	B 0.09 256	B 0.06 256	B 0.05 256	B 0.05 256	B 0.03 256	B 0.03 256	B 0.03 256
24	B 0.1 402	B 0.09 402	B 0.07 402	B 0.06 402	B 0.05 402	B 0.05 402	B 0.04 402	B 0.03 402
25	B 0.07 256	B 0.07 256	B 0.05 256	B 0.04 256	B 0.01 256	B 0.01 256	B 0.02 256	B 0.03 256
26	B 0.07 188	B 0.06 188	B 0.04 188	B 0.03 188	B 0.03 188	B 0.03 188	B 0.02 188	B 0.02 188
27	B 0.06 149	B 0.06 149	B 0.03 149	B 0.03 149	B 0.02 149	B 0.02 149	B 0.02 149	B 0.03 149
28	B 0.08 399	B 0.07 399	B 0.05 399	B 0.04 399	B 0.02 399	B 0.03 399	B 0.02 399	B 0.03 399
29	B 0.06 152	B 0.06 152	B 0.03 152	B 0.03 152	B 0.02 152	B 0.02 152	B 0.02 152	B 0.03 152
30	B 0.07 256	B 0.07 256	B 0.04 256	B 0.03 256	B 0.02 256	B 0.02 256	B 0.02 256	B 0.02 256
31	B 0.06 256	B 0.06 256	B 0.03 256	B 0.02 256	B 0.02 256	B 0.03 256	B 0.02 256	B 0.02 256

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Table 73 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
32	B 0.1 442	B 0.1 442	B 0.07 442	B 0.06 442	B 0.05 442	B 0.05 442	B 0.04 442	B 0.05 442
33	A 0.14 42	A 0.12 42	A 0.09 42	A 0.09 42	A 0.06 42	A 0.06 42	A 0.05 42	A 0.05 42
34	A 0.11 29	A 0.11 29	A 0.07 29	A 0.07 29	A 0.05 29	A 0.05 29	A 0.04 29	A 0.05 29
35	A 0.1 42	A 0.1 42	A 0.06 42	A 0.06 42	A 0.05 42	A 0.05 42	A 0.03 42	A 0.03 42
36	A 0.22 120	A 0.25 121	A 0.2 120	A 0.22 121	A 0.14 121	A 0.19 121	A 0.12 120	A 0.06 120
37	A 0.1 29	A 0.1 29	A 0.06 29	A 0.07 29	A 0.03 29	A 0.03 29	A 0.03 29	A 0.03 29
38	A 0.1 29	A 0.11 29	A 0.06 29	A 0.06 29	A 0.04 29	A 0.05 29	A 0.03 29	A 0.03 29
39	A 0.1 42	A 0.1 42	A 0.06 42	A 0.05 42	A 0.03 42	A 0.05 42	A 0.03 42	A 0.05 42
40	A 0.13 42	A 0.13 42	A 0.1 42	A 0.1 42	A 0.06 42	A 0.08 42	A 0.06 42	A 0.06 42
41	A 0.18 120	A 0.19 121	A 0.16 120	A 0.16 121	A 0.14 121	A 0.16 121	A 0.1 120	A 0.05 120
42	A 0.18 120	A 0.18 121	A 0.16 120	A 0.16 121	A 0.11 121	A 0.16 121	A 0.1 120	A 0.06 120
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	A 0.07 100	A 0.07 100	A 0.04 100	A 0.04 100	A 0.03 100	A 0.03 100	A 0.03 100	A 0.03 100
53	A 0.07 152	A 0.08 152	A 0.05 152	A 0.05 152	A 0.05 152	A 0.05 152	A 0.03 152	A 0.05 152
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
56	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.72 4_Trig_functions\4.1bCosine\4.1.10(c+dx)^m(a+bcos)^n

Table 74: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.02 302	B 0.03 302	B 0.01 302	B 0.01 302	B 0. 302	B 0.02 302	B 0. 302	B 0.02 302
2	A 0.03 109	A 0.04 109	A 0.01 109	A 0.01 109	A 0. 109	A 0. 109	A 0. 109	A 0.02 109
3	A 0.02 179	A 0.04 179	A 0.01 179	A 0.01 179	A 0. 179	A 0.02 179	A 0. 179	A 0. 179
4	A 0.03 105	A 0.04 105	A 0.01 105	A 0.01 105	A 0.02 105	A 0. 105	A 0. 105	A 0. 105
5	B 0.04 1023	B 0.05 1023	B 0.03 1165	B 0.02 1165	B 0. 1165	B 0.02 1165	B 0.01 1165	B 0.02 1165
6	A 0.02 95	A 0.04 95	A 0.01 120	A 0. 120	A 0.02 120	A 0. 120	A 0. 120	A 0. 120
7	A 0.02 242	A 0.04 242	A 0.02 242	A 0.01 242	A 0.02 242	A 0. 242	A 0. 242	A 0. 242
8	A 0.02 124	A 0.04 124	A 0.01 124	A 0.01 124	A 0.02 124	A 0. 124	A 0. 124	A 0.02 124
9	B 0.1 392	B 0.11 392	B 0.08 392	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	B 0.26 1127	B 0.26 1127	B 0.22 1127	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.02 220	A 0.04 220	A 0.02 220	A 0.01 220	A 0.02 220	A 0. 220	A 0. 220	A 0.02 220
13	A 0.1 368	A 0.11 368	A 0.06 368	A 0.05 368	A 0.03 368	A 0.03 368	A 0.03 368	A 0.05 368
14	A 0.01 34	A 0.03 34	A 0.01 34	A 0.01 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	B 0.06 229	B 0.06 229	B 0.04 229	B 0.03 229	B 0.03 229	B 0.03 229	B 0.02 229	B 0.03 229
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	C 0.1 354	C 0.12 354	C 0.08 396	C 0.08 396	C 0.08 398	C 0.08 398	C 0.06 396	C 0.14 398
23	C 0.14 291	C 0.13 291	C 0.1 325	C 0.1 323	C 0.09 325	C 0.09 325	C 0.08 325	C 0.17 325
24	C 0.14 427	C 0.16 427	C 0.11 427	C 0.11 423	C 0.11 427	C 0.11 427	C 0.08 427	C 0.16 427
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 74 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	C 0.1 105	C 0.1 105	C 0.06 105	C 0.06 105	F 0 0	F 0 0	F 0 0	F 0 0
30	C 0.09 87	C 0.1 87	C 0.06 87	C 0.06 87	F 0 0	F 0 0	F 0 0	F 0 0
31	B 0.07 39	B 0.07 39	B 0.04 39	B 0.03 39	B 0.01 39	B 0.02 37	B 0.01 37	B 0.02 37
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.73 4_Trig_functions\4.1bCosine\4.1.1.1(a+bcos)^n

Table 75: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.06 101	A 0.06 101	A 0.03 101	A 0.03 101	A 0.02 101	A 0.03 101	A 0.02 101	A 0.05 101
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	A 0.02 18	A 0.04 18	A 0.02 18	A 0.01 18	A 0.02 18	A 0. 18	A 0. 18	A 0. 18
5	A 0.03 48	A 0.05 48	A 0.03 48	A 0.02 48	A 0.02 48	A 0.01 48	A 0. 48	A 0.02 48
6	A 0.04 116	A 0.05 112	A 0.04 112	A 0.02 112	A 0.02 112	A 0.01 112	A 0.01 112	A 0.02 112
7	A 0.03 83	A 0.05 81	A 0.04 81	A 0.02 81	A 0.02 81	A 0.01 81	A 0.01 81	A 0. 81
8	A 0.03 116	A 0.05 112	A 0.04 112	A 0.02 112	A 0.01 112	A 0.02 112	A 0.01 112	A 0. 112

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Table 75 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
9	A 0.03 18	A 0.04 18	A 0.02 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
10	A 0.04 110	A 0.06 106	A 0.04 106	A 0.02 106	A 0.02 106	A 0.01 106	A 0.01 106	A 0.02 106
11	A 0.04 160	A 0.05 160	A 0.04 160	A 0.02 160	A 0.02 160	A 0.02 160	A 0.01 160	A 0. 160
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.74 4_Trig_functions\4.1bCosine\4.1.12(ex)^m(a+bcos(c+dxⁿ))^p

Table 76: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.01 31	A 0.03 31	A 0.01 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
2	A 0.01 58	A 0.03 58	A 0.01 58	A 0.01 58	A 0. 58	A 0.02 58	A 0. 58	A 0. 58
3	A 0.03 42	A 0.04 42	A 0.02 42	A 0.01 42	A 0. 42	A 0.01 42	A 0.01 42	A 0.02 42
4	C 0.15 89	C 0.14 89	C 0.09 89	C 0.08 89	C 0.08 89	C 0.07 89	C 0.05 89	C 0.14 89
5	A 0.03 66	A 0.04 66	A 0.02 66	A 0.01 66	A 0.02 66	A 0.01 66	A 0. 66	A 0. 66
6	A 0.02 130	A 0.04 130	A 0.02 130	A 0.01 130	A 0.02 130	A 0.01 130	A 0.01 130	A 0. 130
7	A 0.03 101	A 0.04 101	A 0.02 101	A 0.01 101	A 0.02 101	A 0.01 101	A 0.01 101	A 0. 101
8	C 0.09 290	C 0.09 290	C 0.06 290	C 0.06 286	C 0.06 290	C 0.06 290	C 0.04 290	C 0.06 290
9	A 0.02 42	A 0.03 42	A 0.01 42	A 0. 42	A 0.02 42	A 0. 42	A 0. 42	A 0.02 42
10	A 0.03 57	A 0.04 57	A 0.02 57	A 0.01 57	A 0.02 57	A 0. 57	A 0. 57	A 0. 57
11	A 0.01 14	A 0.03 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
12	A 0.02 64	A 0.04 64	A 0.01 64	A 0.01 64	A 0. 64	A 0.01 64	A 0. 64	A 0. 64
13	A 0.05 207	A 0.06 207	A 0.03 207	A 0.02 207	A 0.02 207	A 0.01 207	A 0.01 207	A 0.02 207
14	A 0.03 45	A 0.05 45	A 0.02 45	A 0.01 45	A 0. 45	A 0.02 45	A 0. 45	A 0. 45
15	A 0.03 77	A 0.05 77	A 0.02 77	A 0.01 77	A 0. 77	A 0. 77	A 0. 77	A 0. 77
16	A 0.03 45	A 0.05 45	A 0.02 45	A 0.01 45	A 0.02 45	A 0.02 45	A 0.01 45	A 0. 45

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Table 76 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	B 0.05 271	B 0.07 271	B 0.04 271	B 0.03 271	B 0.03 271	B 0.02 271	B 0.02 271	B 0.03 271
19	B 0.03 655	B 0.05 655	B 0.02 655	B 0.01 655	B 0. 655	B 0. 655	B 0. 655	B 0.02 655
20	C 0.13 933	C 0.1 933	C 0.06 927	C 0.06 927	C 0.05 927	C 0.03 927	C 0.03 921	C 0.08 927

2.75 $4_Trig_functions\backslash4.1bCosine\backslash4.1.1.2(gsin)^p(a+bcos)^m$

Table 77: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.05 68	B 0.07 64	B 0.04 64	B 0.02 64	B 0.02 64	B 0.02 64	B 0. 64	B 0. 64
2	A 0.04 16	A 0.05 16	A 0.02 16	A 0.01 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
3	A 0.06 55	A 0.08 55	A 0.05 55	A 0.03 55	A 0.02 55	A 0.01 55	A 0.01 55	A 0. 55
4	A 0.04 11	A 0.06 11	A 0.05 11	A 0.01 11	A 0. 11	A 0.02 11	A 0. 11	A 0. 11
5	A 0.07 13	A 0.09 13	A 0.07 13	A 0.01 13	A 0.01 13	A 0. 13	A 0.01 13	A 0. 13
6	A 0.04 11	A 0.06 11	A 0.04 11	A 0.01 11	A 0.02 11	A 0.02 11	A 0. 11	A 0.02 11
7	A 0.02 9	A 0.04 9	A 0.02 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
8	A 0.02 45	A 0.04 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	A 0. 45
9	A 0.09 161	A 0.1 161	A 0.04 161	A 0.04 161	A 0.03 161	A 0.05 161	A 0.03 161	A 0.05 157
10	A 0.09 226	A 0.11 226	A 0.05 226	A 0.05 226	A 0.03 226	A 0.04 226	A 0.03 226	A 0.05 222
11	B 0.09 300	B 0.11 300	B 0.05 300	B 0.05 300	B 0.05 300	B 0.05 300	B 0.03 300	B 0.05 292
12	B 0.16 2099	B 0.15 2099	B 0.1 2099	B 0.11 2099	B 0.08 2099	B 0.09 2099	B 0.07 2099	B 0.11 2096
13	B 0.19 3472	B 0.18 4625	B 0.13 4625	B 0.12 4625	B 0.11 4625	B 0.12 4625	B 0.09 4625	B 0.11 4614
14	B 0.13 2187	B 0.13 2970	B 0.08 2970	B 0.07 2970	B 0.06 2970	B 0.08 2970	B 0.05 2970	B 0.06 2965
15	B 0.31 8050	B 0.27 11358	B 0.22 11358	B 0.22 11358	B 0.19 11358	B 0.22 11358	B 0.16 11358	B 0.23 11314
16	B 0.16 4443	B 0.15 5678	B 0.11 5678	B 0.1 5678	B 0.09 5678	B 0.09 5678	B 0.07 5678	B 0.09 5658
17	B 0.2 3011	B 0.18 2859	B 0.14 2859	B 0.14 2859	B 0.12 2859	B 0.14 2859	B 0.1 2859	B 0.14 2853

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Table 77 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
18	B 0.24 5899	B 0.22 7046	B 0.19 7046	B 0.18 7046	B 0.14 7046	B 0.2 7046	B 0.13 7046	B 0.25 7014

2.76 $4_Trig_functions\4.1bCosine\4.1.13(d+ex)^m\cos(a+bx+cx^2)^n$

Table 78: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 204	A 0.04 204	A 0.01 204	A 0. 204	A 0. 204	A 0. 204	A 0. 204	A 0. 204
2	A 0.01 99	A 0.03 99	A 0.01 99	A 0. 99	A 0. 99	A 0. 99	A 0. 99	A 0. 99
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	A 0.03 191	A 0.04 191	A 0.01 191	A 0.01 191	A 0.02 191	A 0.01 191	A 0. 191	A 0. 191
5	A 0.02 72	A 0.03 72	A 0. 72	A 0. 72	A 0. 72	A 0. 72	A 0. 72	A 0. 72
6	A 0.03 64	A 0.05 64	A 0.02 64	A 0.02 64	A 0.02 64	A 0.01 64	A 0.01 64	A 0.02 64
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.77 $4_Trig_functions\4.1bCosine\4.1.1.3(g\tan)^p(a+b\cos)^m$

Table 79: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.07 103	B 0.08 103	B 0.05 103	B 0.02 103	B 0.02 103	B 0.02 103	B 0.01 103	B 0.02 103
2	A 0.06 33	A 0.08 33	A 0.05 33	A 0.02 33	A 0.02 33	A 0. 33	A 0.01 33	A 0. 33
3	A 0.04 65	A 0.06 65	A 0.03 65	A 0.02 65	A 0.02 65	A 0.01 65	A 0. 65	A 0. 65
4	A 0.04 78	A 0.06 78	A 0.04 78	A 0.02 78	A 0.01 78	A 0.02 78	A 0.01 78	A 0.02 78
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.78 4_Trig_functions\4.1bCosine\4.1.2.1(a+bcos)^m(c+dcos)^n

Table 80: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.05 80	A 0.06 80	A 0.03 105	A 0.01 105	A 0. 105	A 0.02 105	A 0. 105	A 0. 105
2	A 0.04 38	A 0.05 38	A 0.02 38	A 0.01 38	A 0.01 38	A 0. 38	A 0. 38	A 0. 38
3	A 0.05 121	A 0.06 121	A 0.03 152	A 0.01 152	A 0.02 152	A 0. 152	A 0. 152	A 0. 152
4	A 0.1 102	A 0.11 112	A 0.1 112	A 0.03 112	A 0.01 112	A 0. 112	A 0. 112	A 0. 112
5	A 0.04 133	A 0.06 133	A 0.03 161	A 0.01 161	A 0. 161	A 0. 161	A 0. 161	A 0.02 161
6	A 0.04 111	A 0.05 111	A 0.02 125	A 0. 125	A 0. 125	A 0. 125	A 0. 125	A 0. 125
7	A 0.08 94	A 0.1 94	A 0.07 94	A 0.04 94	A 0.02 94	A 0. 94	A 0. 94	A 0. 94
8	A 0.11 123	A 0.12 133	A 0.11 133	A 0.04 133	A 0.01 133	A 0.01 133	A 0. 133	A 0. 133
9	A 0.04 171	A 0.06 165	A 0.04 165	A 0.02 165	A 0.02 165	A 0.01 165	A 0.01 165	A 0.02 165
10	A 0.07 143	A 0.09 143	A 0.07 143	A 0.04 143	A 0.02 143	A 0.02 143	A 0.01 143	A 0.02 143
11	A 0.05 156	A 0.06 152	A 0.05 152	A 0.02 152	A 0.02 152	A 0.01 152	A 0.01 152	A 0.02 152
12	A 0.06 96	A 0.08 96	A 0.07 96	A 0.04 96	A 0.02 96	A 0.01 96	A 0.01 96	A 0.02 96
13	A 0.07 139	A 0.09 139	A 0.08 139	A 0.04 139	A 0.02 139	A 0.02 139	A 0.01 139	A 0. 139
14	A 0.04 126	A 0.06 126	A 0.05 126	A 0.02 126	A 0.02 126	A 0.01 126	A 0.01 126	A 0.02 126
15	A 0.04 58	A 0.05 58	A 0.03 58	A 0.01 58	A 0.02 58	A 0. 58	A 0. 58	A 0. 58
16	A 0.05 179	A 0.06 177	A 0.06 177	A 0.02 177	A 0.01 177	A 0.02 177	A 0.01 177	A 0.02 177
17	A 0.04 113	A 0.06 113	A 0.04 113	A 0.01 113	A 0. 113	A 0.01 113	A 0.01 113	A 0.02 113
18	B 0.11 187	B 0.1 187	B 0.06 187	B 0.06 187	B 0.04 187	B 0.06 187	B 0.04 187	B 0.06 187
19	B 0.12 582	B 0.14 582	B 0.09 582	B 0.08 582	B 0.05 582	B 0.06 582	B 0.05 582	B 0.08 582
20	A 0.09 114	A 0.09 114	A 0.05 114	A 0.05 114	A 0.05 114	A 0.06 114	A 0.04 114	A 0.06 114
21	B 0.11 765	B 0.11 765	B 0.07 765	B 0.07 765	B 0.06 765	B 0.06 765	B 0.04 765	B 0.05 765
22	A 0.05 88	A 0.06 88	A 0.02 88	A 0.02 88	A 0.03 88	A 0.02 88	A 0.01 88	A 0.02 88
23	B 0.08 765	B 0.09 765	B 0.06 765	B 0.04 765	B 0.03 765	B 0.03 765	B 0.03 765	B 0.03 765
24	A 0. 101	A 0.02 101	A 0. 101	A 0. 101	A 0. 101	A 0. 101	A 0. 101	A 0.02 101
25	A 0.07 172	A 0.07 172	A 0.04 172	A 0.03 172	A 0.02 172	A 0.02 172	A 0.02 172	A 0.03 172

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
26	B	0.1	994	B	0.1	994	B	0.07	994	B	0.06	994	B	0.05	994	B	0.03	994	B	0.04	994	B	0.06	994
27	B	0.07	150	B	0.07	151	B	0.04	151	B	0.04	150	B	0.03	150	B	0.03	150	B	0.02	150	B	0.03	150
28	B	0.07	185	B	0.07	185	B	0.04	185	B	0.04	185	B	0.03	185	B	0.03	185	B	0.02	185	B	0.02	185
29	B	0.05	232	B	0.06	232	B	0.03	232	B	0.03	232	B	0.02	232	B	0.04	232	B	0.02	233	B	0.03	233
30	A	0.05	160	A	0.06	160	A	0.03	160	A	0.02	160	A	0.02	160	A	0.02	160	A	0.02	160	A	0.02	160
31	B	0.1	410	B	0.1	410	B	0.06	410	B	0.06	410	B	0.05	410	B	0.06	410	B	0.04	410	B	0.06	410
32	A	0.07	274	A	0.08	274	A	0.04	274	A	0.04	274	A	0.03	274	A	0.03	274	A	0.03	274	A	0.02	274
33	B	0.06	446	B	0.07	446	B	0.04	446	B	0.03	447	B	0.03	446	B	0.03	446	B	0.02	446	B	0.03	447
34	A	0.1	284	A	0.1	284	A	0.07	284	A	0.06	284	A	0.05	284	A	0.05	284	A	0.04	284	A	0.06	284
35	B	0.07	563	B	0.07	563	B	0.05	563	B	0.04	563	B	0.02	563	B	0.03	563	B	0.02	563	B	0.03	563
36	B	0.07	485	B	0.07	485	B	0.06	485	B	0.04	485	B	0.03	485	B	0.03	485	B	0.02	485	B	0.03	485
37	A	0.14	42	A	0.13	42	A	0.1	42	A	0.08	42	A	0.05	42	A	0.06	42	A	0.05	42	A	0.06	42
38	A	0.15	54	A	0.14	54	A	0.09	54	A	0.09	54	A	0.06	54	A	0.06	54	A	0.05	54	A	0.06	54
39	A	0.19	160	A	0.18	160	B	0.14	230	B	0.16	230	B	0.11	230	B	0.12	230	B	0.09	230	B	0.08	230
40	B	0.19	333	B	0.18	333	B	0.14	343	B	0.15	343	B	0.09	343	B	0.12	343	B	0.09	343	B	0.08	343
41	A	0.18	77	A	0.17	77	A	0.13	77	A	0.12	77	A	0.12	77	A	0.11	77	A	0.08	77	A	0.06	77
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
43	A	0.17	159	A	0.16	159	B	0.12	370	B	0.12	370	B	0.08	370	B	0.09	370	B	0.07	370	B	0.06	370
44	A	0.14	125	A	0.14	125	B	0.09	190	B	0.08	190	B	0.05	190	B	0.08	190	B	0.04	190	B	0.05	190
45	A	0.12	69	A	0.12	69	A	0.08	69	A	0.07	69	A	0.05	69	A	0.06	69	A	0.04	69	A	0.03	69
46	B	0.16	206	B	0.15	206	B	0.11	206	B	0.11	206	B	0.08	206	B	0.09	206	B	0.06	206	B	0.06	206
47	B	0.15	170	B	0.13	170	B	0.1	170	B	0.09	170	B	0.06	170	B	0.08	170	B	0.04	170	B	0.05	170
48	B	0.16	312	B	0.15	312	B	0.11	366	B	0.1	366	B	0.08	366	B	0.09	366	B	0.06	366	B	0.05	366
49	A	0.16	280	A	0.15	280	B	0.11	364	B	0.11	364	B	0.08	364	B	0.09	364	B	0.06	364	B	0.06	364
50	A	0.16	93	A	0.16	93	A	0.12	93	A	0.11	93	A	0.08	93	A	0.09	93	A	0.07	93	A	0.06	93
51	B	0.11	83	B	0.12	83	B	0.08	83	B	0.07	83	B	0.05	83	B	0.06	83	B	0.04	83	B	0.06	83
52	A	0.12	116	A	0.12	116	A	0.09	120	A	0.09	121	A	0.06	120	A	0.06	120	A	0.04	120	A	0.06	120
53	B	0.29	305	B	0.3	305	B	0.26	325	B	0.28	325	B	0.21	325	B	0.23	325	B	0.17	325	B	0.08	325

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
54	A	0.13	161	A	0.13	161	B	0.1	340	B	0.09	340	B	0.06	340	B	0.06	340	B	0.05	340	B	0.05	343
55	B	0.1	84	B	0.11	84	B	0.08	84	B	0.07	84	B	0.05	84	B	0.06	84	B	0.04	84	B	0.03	84
56	B	0.08	410	B	0.08	410	B	0.04	410	B	0.03	410	B	0.01	410	B	0.03	410	B	0.02	410	B	0.03	410
57	A	0.08	261	A	0.08	261	A	0.04	261	A	0.03	261	A	0.03	261	A	0.03	261	A	0.02	261	A	0.03	261
58	B	0.08	356	B	0.09	356	B	0.04	356	B	0.04	356	B	0.03	356	B	0.03	356	B	0.02	356	B	0.05	356
59	A	0.08	261	A	0.08	261	A	0.04	261	A	0.03	261	A	0.03	261	A	0.02	261	A	0.02	261	A	0.03	261
60	A	0.08	261	A	0.08	261	A	0.04	261	A	0.03	261	A	0.03	261	A	0.03	261	A	0.02	261	A	0.02	261
61	A	0.08	252	A	0.08	252	A	0.05	252	A	0.04	252	A	0.02	252	A	0.03	252	A	0.02	252	A	0.02	252
62	B	0.08	198	B	0.08	198	B	0.06	198	B	0.04	198	B	0.02	198	B	0.03	198	B	0.02	198	B	0.03	198
63	B	0.07	563	B	0.07	563	B	0.04	563	B	0.03	563	B	0.02	563	B	0.02	563	B	0.02	563	B	0.02	563
64	A	0.08	284	A	0.08	284	A	0.06	284	A	0.04	284	A	0.02	284	A	0.02	284	A	0.02	284	A	0.02	284
65	A	0.08	284	A	0.09	284	A	0.06	284	A	0.04	284	A	0.02	284	A	0.02	284	A	0.02	284	A	0.03	284
66	A	0.08	284	A	0.09	284	A	0.06	284	A	0.04	284	A	0.03	284	A	0.02	284	A	0.02	284	A	0.03	284
67	A	0.07	284	A	0.08	284	A	0.05	284	A	0.03	284	A	0.02	284	A	0.02	284	A	0.02	284	A	0.03	284
68	A	0.22	82	A	0.22	82	A	0.15	82	A	0.14	82	A	0.09	82	A	0.12	82	A	0.09	82	A	0.08	82
69	A	0.17	50	A	0.15	50	A	0.1	50	A	0.08	50	A	0.06	50	A	0.06	50	A	0.05	50	A	0.06	50
70	B	0.19	100	B	0.17	100	B	0.12	104	B	0.11	104	B	0.06	104	B	0.09	104	B	0.06	104	B	0.05	104
71	A	0.2	132	A	0.19	132	B	0.14	276	B	0.13	276	B	0.08	276	B	0.08	276	B	0.07	276	B	0.08	276
72	A	0.18	63	A	0.17	63	A	0.13	63	A	0.1	63	A	0.08	63	A	0.09	63	A	0.06	63	A	0.06	63
73	A	0.27	205	A	0.26	205	B	0.21	433	B	0.19	433	B	0.14	433	B	0.17	433	B	0.11	433	B	0.11	433
74	A	0.19	144	A	0.16	144	A	0.12	144	A	0.11	144	A	0.06	144	A	0.09	144	A	0.06	144	A	0.06	144
75	A	0.2	142	A	0.18	142	A	0.14	142	A	0.12	142	A	0.06	142	A	0.09	142	A	0.06	142	A	0.06	142
76	A	0.2	183	A	0.18	184	A	0.15	183	A	0.14	184	A	0.09	184	A	0.12	184	A	0.08	183	A	0.09	184
77	A	0.18	151	A	0.16	151	B	0.13	212	B	0.11	212	B	0.08	210	B	0.09	210	B	0.06	210	B	0.06	210
78	A	0.21	288	A	0.19	288	B	0.15	476	B	0.12	476	B	0.08	476	B	0.09	476	B	0.07	476	B	0.08	476
79	A	0.22	288	A	0.18	288	B	0.16	494	B	0.12	494	B	0.09	494	B	0.11	494	B	0.07	494	B	0.08	494
80	B	0.22	440	B	0.21	440	B	0.17	828	B	0.14	828	B	0.11	828	B	0.12	828	B	0.08	828	B	0.09	828
81	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
82	A 0.03 90	A 0.04 90	A 0.02 121	A 0.01 121	A 0. 121	A 0.02 121	A 0. 121	A 0. 121
83	A 0.04 30	A 0.07 30	A 0.03 30	A 0.02 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
84	A 0.05 92	A 0.07 102	A 0.05 102	A 0.02 102	A 0.01 102	A 0.01 102	A 0. 102	A 0.02 102
85	A 0.03 89	A 0.04 89	A 0.02 103	A 0.01 103	A 0. 103	A 0. 103	A 0. 103	A 0. 103
86	A 0.02 76	A 0.04 76	A 0.02 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84
87	A 0.06 68	A 0.08 76	A 0.04 76	A 0.02 76	A 0. 76	A 0.02 76	A 0. 76	A 0. 76
88	A 0.07 160	A 0.08 180	A 0.05 180	A 0.02 180	A 0.02 180	A 0. 180	A 0. 180	A 0.02 180
89	A 0.07 206	A 0.08 226	A 0.06 226	A 0.02 226	A 0.02 226	A 0. 226	A 0. 226	A 0. 226
90	A 0.03 174	A 0.05 174	A 0.02 214	A 0. 214	A 0. 214	A 0.02 214	A 0. 214	A 0. 214
91	B 0.06 672	B 0.07 442	B 0.05 442	B 0.04 442	B 0.02 442	B 0.03 442	B 0.01 442	B 0.02 442
92	A 0.06 88	A 0.08 88	A 0.06 88	A 0.04 88	A 0.02 88	A 0.02 88	A 0.01 88	A 0.02 88
93	A 0.04 116	B 0.05 167	B 0.05 167	B 0.02 167	B 0.02 167	B 0.02 167	B 0.01 167	B 0. 167
94	A 0.09 271	B 0.1 323	B 0.09 323	B 0.06 323	B 0.05 323	B 0.03 323	B 0.02 323	B 0.02 323
95	B 0.04 400	B 0.06 347	B 0.05 347	B 0.02 347	B 0.02 347	B 0.02 347	B 0.01 347	B 0.02 347
96	B 0.1 712	B 0.11 693	B 0.1 693	B 0.06 693	B 0.03 693	B 0.03 693	B 0.02 693	B 0.03 693
97	B 0.05 931	B 0.06 884	B 0.06 884	B 0.03 884	B 0.03 884	B 0.02 884	B 0.01 884	B 0.02 884
98	A 0.16 220	A 0.12 220	A 0.08 220	A 0.07 220	A 0.06 220	A 0.08 220	A 0.05 220	A 0.08 220
99	B 0.11 877	B 0.11 877	B 0.07 877	B 0.07 877	B 0.06 877	B 0.08 877	B 0.05 877	B 0.06 877
100	B 0.37 368	B 0.1 368	B 0.08 368	B 0.07 368	B 0.05 368	B 0.06 368	B 0.04 368	B 0.06 368
101	A 0.09 234	A 0.08 234	A 0.05 234	A 0.05 234	A 0.03 234	A 0.05 234	A 0.03 234	A 0.05 234
102	A 0.08 165	A 0.09 165	A 0.05 165	A 0.04 165	A 0.03 165	A 0.03 165	A 0.02 165	A 0.05 165
103	C 0.2 75	C 0.23 75	C 0.08 75	C 0.07 75	B 0.03 191	B 0.02 191	B 0.03 191	B 0.02 191
104	B 0.11 2074	B 0.1 2074	B 0.07 2074	B 0.06 2074	B 0.06 2074	B 0.06 2074	B 0.04 2074	B 0.06 2074
105	B 0.08 889	B 0.08 889	B 0.05 889	B 0.04 889	B 0.02 889	B 0.05 889	B 0.03 889	B 0.05 889
106	B 0.13 1073	B 0.12 1073	B 0.1 1073	B 0.08 1073	B 0.06 1073	B 0.06 1073	B 0.06 1073	B 0.09 1073
107	B 0.13 1647	B 0.12 1647	B 0.1 1647	B 0.09 1647	B 0.06 1647	B 0.08 1647	B 0.06 1647	B 0.11 1647
108	A 0.07 236	A 0.07 236	A 0.05 236	A 0.04 236	A 0.03 236	A 0.03 236	A 0.03 236	A 0.05 236
109	A 0.06 235	A 0.06 235	A 0.04 235	A 0.03 235	A 0.02 235	A 0.03 235	A 0.02 235	A 0.02 235

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
110	B 0.06 313	B 0.06 313	B 0.03 313	B 0.03 313	B 0.03 313	B 0.02 313	B 0.02 313	B 0.03 313
111	B 0.06 494	B 0.07 494	B 0.04 494	B 0.03 494	B 0.02 494	B 0.03 494	B 0.02 494	B 0.03 494
112	B 0.07 733	B 0.07 733	B 0.04 733	B 0.03 733	B 0.03 733	B 0.03 733	B 0.02 733	B 0.03 733
113	A 0.1 237	A 0.09 237	A 0.06 236	A 0.06 237	A 0.05 236	A 0.05 236	A 0.04 237	A 0.05 237
114	B 0.16 1957	B 0.15 1957	B 0.12 1969	B 0.12 1969	B 0.11 1969	B 0.11 1969	B 0.09 1969	B 0.16 1969
115	B 0.08 1253	B 0.08 1253	B 0.07 1259	B 0.05 1259	B 0.04 1259	B 0.05 1259	B 0.03 1259	B 0.06 1259
116	B 0.4 1539	B 0.39 1539	B 0.35 1539	B 0.35 1539	B 0.31 1539	B 0.37 1539	B 0.27 1539	B 0.42 1539
117	B 0.31 1866	B 0.32 1866	B 0.27 1866	B 0.26 1866	B 0.22 1866	B 0.3 1866	B 0.2 1866	B 0.33 1866
118	B 0.35 1827	B 0.35 1827	B 0.31 1827	B 0.3 1827	B 0.25 1827	B 0.37 1827	B 0.25 1827	B 0.37 1827
119	B 0.42 3910	B 0.42 3910	B 0.38 3939	B 0.39 3939	B 0.31 3938	B 0.4 3938	B 0.28 3939	B 0.3 3938
120	B 0.21 2418	B 0.22 2417	B 0.18 2446	B 0.17 2445	B 0.16 2445	B 0.2 2445	B 0.14 2445	B 0.19 2446
121	B 0.28 3693	B 0.29 3693	B 0.26 3721	B 0.24 3721	B 0.22 3721	B 0.28 3721	B 0.2 3721	B 0.3 3721
122	B 0.16 107	B 0.15 107	B 0.14 129	B 0.12 129	B 0.09 129	B 0.11 129	B 0.08 129	B 0.09 129
123	B 0.16 109	B 0.15 109	B 0.13 121	B 0.11 121	B 0.08 121	B 0.09 121	B 0.07 121	B 0.09 121
124	A 0.2 127	A 0.18 127	A 0.15 137	A 0.14 137	A 0.08 137	A 0.11 137	A 0.08 137	A 0.09 137
125	A 0.15 144	A 0.17 144	A 0.14 144	A 0.13 144	A 0.08 144	A 0.09 144	A 0.07 144	A 0.09 144
126	A 0.2 161	A 0.19 161	A 0.16 161	A 0.14 161	A 0.11 161	A 0.11 161	A 0.09 161	A 0.09 161
127	B 0.17 144	B 0.16 144	B 0.13 154	B 0.12 154	B 0.09 154	B 0.11 154	B 0.08 154	B 0.08 154
128	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
129	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
130	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
131	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
132	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
133	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
134	B 0.11 694	B 0.1 694	B 0.06 694	B 0.06 694	B 0.05 694	B 0.05 694	B 0.04 694	B 0.06 694
135	B 0.08 357	B 0.08 357	B 0.04 357	B 0.03 357	B 0.03 357	B 0.03 357	B 0.02 357	B 0.03 357
136	B 0.09 818	B 0.09 818	B 0.05 818	B 0.04 818	B 0.03 818	B 0.03 818	B 0.02 818	B 0.03 818
137	B 0.09 705	B 0.09 705	B 0.05 705	B 0.04 705	B 0.03 705	B 0.03 705	B 0.02 705	B 0.03 705

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Table 80 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
138	B 0.08 634	B 0.08 634	B 0.04 634	B 0.03 634	B 0.02 634	B 0.03 634	B 0.02 634	B 0.05 634
139	B 0.08 596	B 0.08 596	B 0.04 596	B 0.03 596	B 0.03 596	B 0.02 596	B 0.02 596	B 0.03 596
140	B 0.09 1957	B 0.09 1957	B 0.06 1969	B 0.04 1969	B 0.03 1969	B 0.03 1969	B 0.03 1969	B 0.05 1969
141	B 0.27 1563	B 0.29 1563	B 0.22 1563	B 0.21 1563	B 0.16 1563	B 0.23 1563	B 0.16 1563	B 0.22 1563
142	A 0.23 199	A 0.22 199	A 0.15 222	A 0.13 222	A 0.09 222	A 0.11 222	A 0.08 222	A 0.09 222
143	B 0.28 1241	B 0.25 1241	B 0.18 1243	B 0.17 1243	B 0.12 1243	B 0.19 1243	B 0.12 1243	B 0.17 1243
144	B 0.44 1495	B 0.42 1493	B 0.36 1495	B 0.37 1495	B 0.3 1493	B 0.35 1493	B 0.25 1493	B 0.19 1493
145	B 0.26 620	B 0.24 620	B 0.2 620	B 0.18 620	B 0.14 620	B 0.17 620	B 0.11 620	B 0.12 620
146	A 0.2 125	A 0.2 125	A 0.15 148	A 0.13 148	A 0.08 148	A 0.11 148	A 0.07 148	A 0.06 148
147	B 0.28 1247	B 0.27 1248	B 0.23 1248	B 0.22 1248	B 0.16 1248	B 0.2 1248	B 0.13 1248	B 0.19 1248
148	B 0.29 1214	B 0.29 1214	B 0.24 1216	B 0.23 1216	B 0.16 1216	B 0.22 1216	B 0.14 1216	B 0.14 1216
149	B 0.28 1675	B 0.27 1675	B 0.22 1675	B 0.2 1675	B 0.16 1675	B 0.2 1675	B 0.14 1675	B 0.17 1675
150	B 0.29 3701	B 0.28 3701	B 0.23 3729	B 0.23 3729	B 0.17 3729	B 0.25 3729	B 0.17 3729	B 0.28 3729
151	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
152	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
153	B 0.05 150	B 0.06 150	B 0.03 180	B 0.01 178	B 0. 178	B 0. 178	B 0. 178	B 0.02 178
154	B 0.08 63	B 0.07 63	B 0.04 63	B 0.03 63	B 0.03 63	B 0.02 63	B 0.02 63	B 0.03 63
155	B 0.07 58	B 0.07 58	B 0.04 58	B 0.03 58	B 0.02 58	B 0.02 58	B 0.01 58	B 0.02 58
156	B 0.04 51	B 0.06 153	B 0.05 153	B 0.02 153	B 0.03 153	B 0.02 153	B 0.01 153	B 0. 153
157	A 0.09 39	A 0.12 39	A 0.08 39	A 0.04 39	A 0.02 39	A 0.02 39	A 0.01 39	A 0. 39
158	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
159	B 0.11 329	B 0.09 329	B 0.07 329	B 0.05 329	B 0.03 329	B 0.04 329	B 0.03 329	B 0.05 329
160	B 0.1 329	B 0.08 329	B 0.05 329	B 0.04 329	B 0.03 329	B 0.03 329	B 0.02 329	B 0.03 329
161	B 0.14 530	B 0.12 530	B 0.09 530	B 0.08 530	B 0.05 530	B 0.07 530	B 0.04 530	B 0.06 530
162	A 0.08 297	A 0.07 297	A 0.04 297	A 0.04 297	A 0.03 297	A 0.02 297	A 0.02 297	A 0.03 297
163	A 0.07 168	A 0.06 168	A 0.04 168	A 0.03 168	A 0.02 168	A 0.03 168	A 0.02 168	A 0.03 168
164	A 0.08 171	A 0.07 171	A 0.04 171	A 0.03 171	A 0.02 171	A 0.02 171	A 0.02 171	A 0.03 171
165	A 0.14 59	A 0.13 59	A 0.1 59	A 0.1 59	A 0.06 59	A 0.08 59	A 0.05 59	A 0.05 59

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Table 80 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
166	A 0.19 120	A 0.17 121	A 0.15 120	A 0.14 121	A 0.09 121	A 0.13 122	A 0.09 121	A 0.08 120
167	A 0.22 91	A 0.22 91	A 0.18 104	A 0.17 104	A 0.13 104	A 0.15 104	A 0.1 104	A 0.11 104
168	A 0.14 74	A 0.14 74	A 0.02 84	A 0.02 84	A 0. 84	A 0.01 84	A 0.01 84	A 0.02 84
169	A 0.13 55	A 0.12 55	A 0.09 55	A 0.09 55	A 0.05 55	A 0.05 55	A 0.05 55	A 0.05 55
170	A 0.12 59	A 0.11 59	A 0.08 59	A 0.08 59	A 0.05 59	A 0.06 59	A 0.04 59	A 0.05 59
171	A 0.16 120	A 0.14 121	A 0.11 120	A 0.12 121	A 0.08 121	A 0.11 121	A 0.06 120	A 0.05 120
172	A 0.16 74	A 0.15 74	A 0.12 74	A 0.11 74	A 0.08 74	A 0.09 74	A 0.07 74	A 0.05 74
173	A 0.11 55	A 0.11 55	A 0.09 55	A 0.08 55	A 0.05 55	A 0.07 55	A 0.04 55	A 0.05 55
174	A 0.12 59	A 0.11 59	A 0.08 59	A 0.07 59	A 0.05 59	A 0.06 59	A 0.04 59	A 0.03 59
175	A 0.11 59	A 0.11 59	A 0.08 59	A 0.07 59	A 0.05 59	A 0.07 59	A 0.04 59	A 0.05 59
176	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
177	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
178	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
179	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
180	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
181	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
182	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
183	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
184	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
185	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
186	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
187	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
188	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.79 4_Trig_functions\4.1bCosine\4.1.2.2(gsin)^p(a+bcos)^m(c+dcos)ⁿ

Table 81: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	B 0.24 859	B 0.22 873	B 0.19 858	B 0.19 873	B 0.12 874	B 0.14 874	B 0.11 858	B 0.08 859
2	B 0.2 602	B 0.19 607	B 0.15 599	B 0.14 610	B 0.11 610	B 0.12 607	B 0.1 599	B 0.11 599
3	B 0.2 532	B 0.17 539	B 0.14 532	B 0.11 539	B 0.08 539	B 0.09 539	B 0.06 532	B 0.09 533
4	B 0.18 601	B 0.17 608	B 0.14 600	B 0.12 609	B 0.09 608	B 0.11 608	B 0.08 600	B 0.09 600

2.80 $4_Trig_functions\4.1bCosine\4.1.2.3(gcos)^p(a+bcos)^m(c+dcos)^n$

Table 82: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.15 116	A 0.18 116	A 0.16 116	A 0.08 116	A 0.02 116	A 0.02 116	A 0.01 116	A 0. 116

2.81 $4_Trig_functions\4.1bCosine\4.1.3.1(a+bcos)^m(c+dcos)^n(A+Bcos)$

Table 83: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.05 128	A 0.07 128	A 0.04 160	A 0.01 160	A 0. 160	A 0. 160	A 0. 160	A 0. 160
2	A 0.08 56	A 0.1 56	A 0.07 56	A 0.04 56	A 0.02 56	A 0. 56	A 0. 56	A 0. 56
3	A 0.04 116	A 0.06 116	A 0.03 124	A 0. 124	A 0. 124	A 0.02 124	A 0. 124	A 0. 124
4	A 0.1 153	A 0.12 153	A 0.09 153	A 0.04 153	A 0.02 153	A 0.02 153	A 0.01 153	A 0.02 153
5	A 0.13 189	A 0.16 209	A 0.13 209	A 0.04 209	A 0. 209	A 0.02 209	A 0. 209	A 0.02 209
6	A 0.14 204	A 0.19 224	A 0.14 224	A 0.05 224	A 0.01 224	A 0. 224	A 0. 224	A 0.02 224
7	A 0.14 234	A 0.17 254	A 0.14 254	A 0.04 254	A 0.01 254	A 0. 254	A 0.01 254	A 0. 254
8	A 0.07 108	A 0.08 108	A 0.05 108	A 0.02 108	A 0.02 108	A 0.02 108	A 0.01 108	A 0.02 108

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
9	A	0.07	78	A	0.09	78	A	0.07	78	A	0.04	78	A	0.01	78	A	0.02	78	A	0.01	78	A	0.02	78
10	A	0.04	60	A	0.06	60	A	0.04	60	A	0.01	60	A	0.	60	A	0.	60	A	0.	60	A	0.	60
11	A	0.11	205	A	0.12	205	A	0.1	205	A	0.05	205	A	0.03	205	A	0.02	205	A	0.01	205	A	0.02	205
12	A	0.05	88	A	0.06	88	A	0.05	88	A	0.01	88	A	0.02	88	A	0.	88	A	0.	88	A	0.	88
13	A	0.04	88	A	0.06	88	A	0.04	88	A	0.01	88	A	0.	88	A	0.	88	A	0.	88	A	0.	88
14	A	0.14	374	A	0.14	374	A	0.14	374	A	0.06	374	A	0.03	374	A	0.02	374	A	0.01	374	A	0.02	374
15	A	0.09	107	A	0.08	107	A	0.03	107	A	0.03	107	A	0.02	107	A	0.03	107	A	0.02	107	A	0.03	107
16	A	0.15	193	A	0.13	193	A	0.08	193	A	0.08	193	A	0.06	193	A	0.08	193	A	0.06	193	A	0.11	193
17	A	0.09	137	A	0.08	137	A	0.04	137	A	0.03	137	A	0.03	137	A	0.02	137	A	0.02	137	A	0.03	137
18	B	0.09	389	B	0.1	389	B	0.05	389	B	0.04	389	B	0.03	389	B	0.03	389	B	0.02	389	B	0.02	389
19	B	0.08	249	B	0.09	249	B	0.04	249	B	0.04	249	B	0.02	249	B	0.03	249	B	0.02	249	B	0.02	249
20	B	0.11	290	B	0.12	288	B	0.07	290	B	0.06	290	B	0.05	290	B	0.04	290	B	0.03	290	B	0.05	288
21	B	0.08	236	B	0.08	236	B	0.04	236	B	0.04	236	B	0.03	236	B	0.03	236	B	0.02	236	B	0.03	236
22	B	0.09	483	B	0.1	483	B	0.05	483	B	0.04	483	B	0.03	483	B	0.03	483	B	0.02	483	B	0.03	483
23	B	0.08	308	B	0.08	308	B	0.04	308	B	0.03	308	B	0.03	308	B	0.03	308	B	0.02	308	B	0.03	308
24	B	0.14	1138	B	0.12	1138	B	0.08	1138	B	0.07	1138	B	0.05	1138	B	0.05	1138	B	0.04	1138	B	0.06	1138
25	B	0.07	406	B	0.07	406	B	0.03	406	B	0.03	406	B	0.02	406	B	0.03	406	B	0.02	406	B	0.02	406
26	A	0.07	450	A	0.07	450	A	0.03	450	A	0.03	450	A	0.02	450	A	0.03	450	A	0.02	450	A	0.03	450
27	B	0.08	942	B	0.08	942	B	0.04	942	B	0.04	942	B	0.03	942	B	0.04	942	B	0.02	942	B	0.05	942
28	B	0.08	999	B	0.08	999	B	0.05	999	B	0.04	999	B	0.03	999	B	0.03	999	B	0.02	999	B	0.03	999
29	B	0.08	404	B	0.08	404	B	0.05	404	B	0.04	404	B	0.03	404	B	0.01	404	B	0.02	404	B	0.03	405
30	B	0.08	446	B	0.08	446	B	0.05	446	B	0.04	446	B	0.03	446	B	0.03	446	B	0.02	446	B	0.02	446
31	B	0.08	457	B	0.08	457	B	0.05	457	B	0.04	457	B	0.03	457	B	0.04	457	B	0.02	457	B	0.03	457
32	B	0.08	473	B	0.08	473	B	0.05	473	B	0.04	473	B	0.03	473	B	0.03	473	B	0.02	473	B	0.03	473
33	B	0.08	473	B	0.08	473	B	0.06	473	B	0.04	473	B	0.03	473	B	0.03	473	B	0.02	473	B	0.03	473
34	B	0.28	307	B	0.29	307	B	0.23	335	B	0.24	335	B	0.19	335	B	0.2	335	B	0.15	335	B	0.11	335
35	B	0.19	466	B	0.22	466	B	0.31	466	B	0.14	466	B	0.23	466	B	0.25	466	B	0.18	466	B	0.11	466
36	B	0.27	347	B	0.29	347	B	0.22	984	B	0.22	984	B	0.17	985	B	0.21	985	B	0.13	985	B	0.09	985

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Table 83 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
37	B 0.38 519	B 0.34 519	B 0.3 519	B 0.31 519	B 0.26 519	B 0.28 519	B 0.19 519	B 0.12 519
38	B 0.23 379	B 0.24 379	B 0.18 655	B 0.17 655	B 0.14 655	B 0.17 655	B 0.1 655	B 0.11 655
39	B 0.19 298	B 0.19 298	B 0.14 661	B 0.13 661	B 0.09 661	B 0.12 661	B 0.08 661	B 0.08 661
40	B 0.24 647	B 0.26 647	B 0.2 1145	B 0.19 1145	B 0.14 1145	B 0.2 1145	B 0.12 1145	B 0.06 1145
41	B 0.22 515	B 0.23 515	B 0.18 899	B 0.17 899	B 0.12 899	B 0.16 899	B 0.1 899	B 0.08 899
42	B 0.22 579	B 0.22 579	B 0.19 593	B 0.16 593	B 0.11 593	B 0.16 593	B 0.11 593	B 0.12 593
43	A 0.02 57	A 0.04 57	A 0.01 57	A 0.01 57	A 0.02 57	A 0. 57	A 0. 57	A 0. 57
44	A 0.06 65	B 0.08 73	B 0.05 73	B 0.02 73	B 0. 73	B 0.02 73	B 0. 73	B 0. 73
45	A 0.06 128	A 0.09 148	A 0.05 148	A 0.02 148	A 0.02 148	A 0.02 148	A 0. 148	A 0. 148
46	A 0.03 114	A 0.05 114	A 0.01 122	A 0.01 122	A 0. 122	A 0.02 122	A 0. 122	A 0. 122
47	A 0.06 120	A 0.08 120	A 0.04 120	A 0.02 120	A 0. 120	A 0. 120	A 0. 120	A 0.02 120
48	A 0.08 104	A 0.09 112	A 0.05 112	A 0.02 112	A 0.02 112	A 0.01 112	A 0. 112	A 0. 112
49	A 0.07 133	A 0.09 151	A 0.07 151	A 0.02 151	A 0. 151	A 0.02 151	A 0. 151	A 0.02 151
50	A 0.03 316	A 0.05 316	A 0.02 384	A 0.01 384	A 0. 384	A 0.02 384	A 0. 384	A 0. 384
51	A 0.1 236	A 0.12 254	A 0.09 254	A 0.03 254	A 0.02 254	A 0. 254	A 0.01 254	A 0. 254
52	A 0.04 113	A 0.07 113	A 0.05 113	A 0.03 113	A 0.03 113	A 0.02 113	A 0.01 113	A 0.02 113
53	B 0.12 1045	B 0.15 1009	B 0.12 1009	B 0.08 1009	B 0.03 1009	B 0.03 1009	B 0.02 1009	B 0.02 1009
54	B 0.17 1358	B 0.15 1363	B 0.14 1363	B 0.09 1363	B 0.03 1363	B 0.05 1363	B 0.02 1363	B 0.03 1363
55	B 0.06 1727	B 0.07 1495	B 0.07 1495	B 0.03 1495	B 0.03 1495	B 0.03 1495	B 0.01 1495	B 0.02 1495
56	A 0.04 23	A 0.06 23	A 0.03 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
57	A 0.03 12	A 0.05 12	A 0.02 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
58	A 0.05 20	A 0.06 20	A 0.04 20	A 0.02 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
59	A 0.05 69	A 0.08 69	A 0.04 69	A 0.03 69	A 0.03 69	A 0.02 69	A 0.01 69	A 0.02 69
60	B 0.17 2672	B 0.23 2672	B 0.12 2672	B 0.11 2672	B 0.09 2672	B 0.11 2672	B 0.08 2672	B 0.11 2672
61	B 0.08 1108	B 0.08 1108	B 0.05 1108	B 0.04 1108	B 0.03 1108	B 0.04 1108	B 0.02 1108	B 0.03 1108
62	B 0.11 1685	B 0.11 1685	B 0.07 1685	B 0.06 1685	B 0.03 1685	B 0.05 1685	B 0.03 1685	B 0.05 1685
63	B 0.12 2269	B 0.12 2269	B 0.07 2269	B 0.06 2269	B 0.05 2269	B 0.05 2269	B 0.03 2269	B 0.05 2269
64	B 0.09 1108	B 0.08 1108	B 0.05 1108	B 0.04 1108	B 0.03 1108	B 0.04 1108	B 0.02 1108	B 0.02 1108

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Table 83 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
65	B 0.08 721	B 0.08 721	B 0.05 721	B 0.04 721	B 0.03 721	B 0.03 721	B 0.02 720	B 0.03 720
66	B 0.09 1596	B 0.09 1596	B 0.06 1596	B 0.05 1596	B 0.05 1596	B 0.04 1596	B 0.03 1596	B 0.06 1596
67	B 0.12 1950	B 0.12 1950	B 0.09 1950	B 0.06 1950	B 0.05 1950	B 0.06 1950	B 0.04 1950	B 0.06 1950
68	B 0.11 2144	B 0.11 2144	B 0.07 2144	B 0.06 2144	B 0.05 2144	B 0.07 2144	B 0.05 2144	B 0.08 2144
69	B 0.1 2113	B 0.1 2113	B 0.07 2113	B 0.06 2113	B 0.05 2113	B 0.06 2113	B 0.05 2113	B 0.08 2113
70	B 0.1 1485	B 0.1 1485	B 0.07 1485	B 0.06 1485	B 0.05 1485	B 0.06 1485	B 0.04 1485	B 0.06 1485
71	B 0.1 1086	B 0.1 1086	B 0.06 1086	B 0.06 1086	B 0.05 1086	B 0.05 1086	B 0.04 1086	B 0.06 1086
72	B 0.09 955	B 0.09 955	B 0.06 955	B 0.05 955	B 0.05 955	B 0.04 955	B 0.04 955	B 0.05 955
73	B 0.14 1667	B 0.13 1667	B 0.09 1667	B 0.07 1667	B 0.06 1667	B 0.06 1667	B 0.06 1667	B 0.09 1667
74	B 0.1 193	B 0.09 193	B 0.05 193	B 0.04 193	B 0.02 193	B 0.03 193	B 0.02 193	B 0. 193
75	B 0.1 438	B 0.08 438	B 0.04 438	B 0.04 438	B 0.03 438	B 0.03 438	B 0.03 438	B 0.03 438
76	B 0.11 667	B 0.1 667	B 0.06 667	B 0.05 667	B 0.05 667	B 0.03 667	B 0.03 667	B 0.05 667
77	B 0.07 343	B 0.07 343	B 0.03 343	B 0.03 343	B 0.03 343	B 0.02 343	B 0.02 343	B 0.03 343
78	B 0.08 951	B 0.08 951	B 0.04 951	B 0.04 951	B 0.03 951	B 0.05 951	B 0.02 951	B 0.05 951
79	B 0.09 1204	B 0.08 1204	B 0.05 1204	B 0.04 1204	B 0.03 1204	B 0.05 1204	B 0.03 1204	B 0.05 1204
80	B 0.08 415	B 0.08 415	B 0.05 417	B 0.05 417	B 0.03 417	B 0.03 417	B 0.02 417	B 0.03 417
81	B 0.08 766	B 0.08 766	B 0.06 772	B 0.05 772	B 0.03 772	B 0.03 772	B 0.03 772	B 0.05 772
82	B 0.09 1008	B 0.09 1008	B 0.07 1014	B 0.05 1014	B 0.03 1014	B 0.05 1014	B 0.03 1014	B 0.05 1014
83	B 0.05 231	B 0.06 231	B 0.03 231	B 0.03 231	B 0.02 231	B 0.02 231	B 0.02 231	B 0.03 231
84	A 0.06 238	A 0.07 238	A 0.03 237	A 0.03 237	A 0.02 237	A 0.02 238	A 0.02 237	A 0.03 238
85	B 0.06 161	B 0.06 161	B 0.04 161	B 0.03 161	B 0.02 161	B 0.02 161	B 0.02 161	B 0.02 161
86	B 0.4 3427	B 0.44 3427	B 0.41 3427	B 0.38 3427	B 0.34 3427	B 0.45 3427	B 0.33 3427	B 0.55 3427
87	B 0.3 2430	B 0.32 2430	B 0.29 2430	B 0.29 2430	B 0.23 2430	B 0.3 2430	B 0.21 2430	B 0.33 2430
88	B 0.45 4238	B 0.5 4238	B 0.32 4187	B 0.32 4187	B 0.26 4187	B 0.34 4187	B 0.25 4187	B 0.39 4187
89	B 0.35 3274	B 0.36 3274	B 0.31 3274	B 0.3 3274	B 0.25 3274	B 0.33 3274	B 0.24 3274	B 0.39 3274
90	B 0.31 2346	B 0.3 2346	B 0.23 2346	B 0.23 2346	B 0.17 2346	B 0.23 2346	B 0.15 2346	B 0.22 2346
91	B 0.74 8611	B 0.81 8611	B 0.78 8644	B 0.79 8644	B 0.68 8644	B 0.83 8644	B 0.6 8644	B 0.59 8644
92	B 0.37 4241	B 0.41 4237	B 0.39 4274	B 0.38 4270	B 0.3 4270	B 0.43 4270	B 0.28 4270	B 0.36 4270

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Table 83 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
93	B 0.46 8093	B 0.54 8093	B 0.49 8123	B 0.48 8123	B 0.41 8121	B 0.6 8121	B 0.43 8121	B 0.69 8121
94	A 0.27 623	A 0.29 623	A 0.25 626	A 0.23 626	A 0.17 623	A 0.22 623	A 0.14 623	A 0.12 626
95	A 0.16 124	A 0.16 124	A 0.12 166	A 0.1 166	A 0.06 166	A 0.09 166	A 0.06 166	A 0.08 166
96	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
97	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
98	B 0.08 406	B 0.09 406	B 0.04 406	B 0.03 406	B 0.02 406	B 0.03 406	B 0.02 406	B 0.03 406
99	B 0.09 942	B 0.09 942	B 0.04 942	B 0.03 942	B 0.03 942	B 0.02 942	B 0.02 942	B 0.03 942
100	A 0.1 422	A 0.1 422	A 0.04 422	A 0.03 422	A 0.03 422	A 0.03 422	A 0.02 422	A 0.03 422
101	B 0.1 590	B 0.1 590	B 0.06 590	B 0.05 590	B 0.03 590	B 0.03 590	B 0.03 590	B 0.05 590
102	B 0.1 884	B 0.1 884	B 0.06 884	B 0.04 884	B 0.03 884	B 0.03 884	B 0.02 884	B 0.03 884
103	A 0.11 473	A 0.11 473	A 0.07 473	A 0.05 473	A 0.04 473	A 0.03 473	A 0.02 473	A 0.03 473
104	A 0.28 116	A 0.26 116	A 0.17 158	A 0.16 158	A 0.09 158	A 0.12 158	A 0.09 158	A 0.08 158
105	B 0.31 389	B 0.32 389	B 0.26 428	B 0.23 428	B 0.16 428	B 0.19 428	B 0.13 428	B 0.14 428
106	A 0.27 383	A 0.28 383	B 0.21 697	B 0.19 697	B 0.13 697	B 0.16 697	B 0.11 697	B 0.14 697
107	B 0.36 793	B 0.39 793	B 0.32 823	B 0.29 823	B 0.2 823	B 0.25 823	B 0.18 823	B 0.16 823
108	A 0.25 232	A 0.24 232	B 0.18 601	B 0.16 601	B 0.1 601	B 0.11 601	B 0.08 601	B 0.09 601
109	B 0.33 595	B 0.34 595	B 0.28 605	B 0.25 605	B 0.19 605	B 0.22 605	B 0.16 605	B 0.12 605
110	B 0.26 311	B 0.24 312	B 0.18 311	B 0.16 312	B 0.11 312	B 0.14 312	B 0.09 311	B 0.09 311
111	B 0.23 375	B 0.23 376	B 0.17 637	B 0.16 638	B 0.09 638	B 0.11 638	B 0.08 638	B 0.08 638
112	B 0.26 512	B 0.25 512	B 0.19 909	B 0.17 910	B 0.11 910	B 0.12 910	B 0.09 910	B 0.09 910
113	B 0.27 667	B 0.27 667	B 0.22 1258	B 0.18 1258	B 0.12 1258	B 0.16 1258	B 0.1 1258	B 0.11 1258
114	B 0.1 848	B 0.1 848	B 0.05 848	B 0.03 848	B 0.03 848	B 0.03 848	B 0.02 848	B 0.03 848
115	B 0.12 565	B 0.1 565	B 0.07 567	B 0.05 567	B 0.05 567	B 0.03 567	B 0.03 567	B 0.05 567
116	B 0.12 766	B 0.1 766	B 0.06 772	B 0.05 772	B 0.03 772	B 0.05 772	B 0.02 772	B 0.03 772
117	B 0.11 1857	B 0.12 1857	B 0.08 1867	B 0.06 1867	B 0.04 1867	B 0.05 1867	B 0.04 1867	B 0.06 1867
118	B 0.43 3435	B 0.48 3435	B 0.35 3401	B 0.33 3401	B 0.25 3401	B 0.36 3401	B 0.23 3401	B 0.36 3401
119	B 0.28 1735	B 0.29 1735	B 0.44 1689	B 0.42 1689	B 0.33 1689	B 0.44 1689	B 0.27 1689	B 0.23 1689
120	B 0.43 3421	B 0.48 3421	B 0.41 3386	B 0.38 3386	B 0.28 3386	B 0.41 3386	B 0.29 3386	B 0.47 3386

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Table 83 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
121	B 0.68 5172	B 0.77 5172	B 0.68 5174	B 0.65 5174	B 0.64 5174	B 0.84 5174	B 0.66 5174	B 1.2 5174
122	B 0.34 1007	B 0.35 1007	B 0.27 1007	B 0.24 1007	B 0.2 1007	B 0.25 1007	B 0.15 1007	B 0.12 1007
123	B 0.39 2291	B 0.4 2291	B 0.32 2291	B 0.3 2291	B 0.22 2291	B 0.28 2291	B 0.2 2291	B 0.22 2291
124	B 0.32 2890	B 0.33 2890	B 0.26 2896	B 0.23 2892	B 0.17 2892	B 0.24 2892	B 0.17 2892	B 0.22 2896
125	B 0.42 6506	B 0.44 6506	B 0.4 6534	B 0.35 6534	B 0.3 6534	B 0.39 6534	B 0.28 6534	B 0.45 6534
126	B 0.57 8621	B 0.59 8621	B 0.52 8649	B 0.49 8649	B 0.41 8649	B 0.59 8649	B 0.41 8649	B 0.56 8649
127	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
128	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
129	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.82 4_Trig_functions\4.1bCosine\4.1.4.1(a+bcos)^m(A+Bcos+Ccos^2)

Table 84: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.03 74	A 0.06 74	A 0.02 108	A 0.01 108	A 0.02 108	A 0.02 108	A 0. 108	A 0. 108
2	A 0.03 54	A 0.05 54	A 0.02 76	A 0. 76	A 0. 76	A 0. 76	A 0. 76	A 0. 76
3	A 0.05 32	A 0.07 32	A 0.03 32	A 0.02 32	A 0.02 32	A 0.02 32	A 0. 32	A 0.02 32
4	A 0.06 138	A 0.08 142	A 0.05 142	A 0.02 142	A 0. 142	A 0. 142	A 0. 142	A 0. 142
5	A 0.03 65	A 0.05 65	A 0.02 70	A 0.01 70	A 0.02 70	A 0. 70	A 0. 70	A 0. 70
6	C 0.29 249	C 0.3 249	C 0.43 678	C 0.4 678	C 0.33 678	C 0.36 678	C 0.26 678	C 0.19 678
7	C 0.32 668	C 0.31 668	C 0.43 1528	C 0.43 1528	C 0.36 1528	C 0.39 1528	C 0.28 1528	C 0.16 1528
8	C 0.24 591	C 0.24 591	C 0.32 911	C 0.29 911	C 0.25 911	C 0.28 911	C 0.2 911	C 0.11 911
9	C 0.31 241	C 0.31 241	C 0.26 655	C 0.25 655	C 0.2 656	C 0.22 656	C 0.15 655	C 0.11 656
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	B 0.11 628	B 0.1 628	B 0.07 628	B 0.05 628	B 0.03 628	B 0.03 628	B 0.03 628	B 0.02 628

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Table 84 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
13	B 0.09 245	B 0.09 245	B 0.05 245	B 0.04 245	B 0.03 245	B 0.03 245	B 0.02 245	B 0.03 245
14	B 0.1 260	B 0.09 260	B 0.06 260	B 0.04 260	B 0.02 260	B 0.03 260	B 0.02 260	B 0.05 260
15	B 0.11 429	B 0.11 429	B 0.08 429	B 0.06 429	B 0.03 429	B 0.05 429	B 0.03 429	B 0.05 429
16	B 0.09 339	B 0.08 339	B 0.05 339	B 0.04 339	B 0.02 339	B 0.03 339	B 0.02 339	B 0.03 339
17	B 0.09 257	B 0.08 257	B 0.04 257	B 0.03 257	B 0.02 257	B 0.02 257	B 0.02 257	B 0.02 257
18	B 0.1 429	B 0.09 429	B 0.06 429	B 0.04 429	B 0.03 429	B 0.03 429	B 0.02 429	B 0.03 429
19	B 0.08 314	B 0.08 314	B 0.04 314	B 0.04 314	B 0.03 314	B 0.03 314	B 0.02 314	B 0.03 314
20	B 0.08 260	B 0.08 260	B 0.04 260	B 0.04 260	B 0.03 260	B 0.03 260	B 0.02 260	B 0.03 260
21	B 0.09 429	B 0.09 429	B 0.06 429	B 0.04 429	B 0.01 429	B 0.03 429	B 0.02 429	B 0.03 429
22	A 0.23 70	A 0.24 70	A 0.13 94	A 0.12 94	A 0.09 94	A 0.09 94	A 0.07 94	A 0.08 94
23	A 0.26 88	A 0.28 88	A 0.23 88	A 0.23 88	A 0.17 88	A 0.19 88	A 0.14 88	A 0.08 88
24	A 0.17 134	A 0.18 135	A 0.14 134	A 0.13 135	A 0.08 135	A 0.12 135	A 0.07 134	A 0.06 135
25	A 0.15 54	A 0.15 54	A 0.12 54	A 0.12 54	A 0.08 54	A 0.08 54	A 0.07 54	A 0.05 54
26	A 0.14 45	A 0.15 45	A 0.11 45	A 0.1 45	A 0.04 45	A 0.06 45	A 0.05 45	A 0.06 45
27	A 0.13 55	A 0.13 55	A 0.1 55	A 0.1 55	A 0.05 55	A 0.08 55	A 0.05 55	A 0.03 55
28	A 0.13 214	A 0.13 216	A 0.11 214	A 0.11 216	A 0.07 216	A 0.1 216	A 0.06 214	A 0.08 214
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 84 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	B 0.11 549	B 0.11 549	B 0.07 549	B 0.05 549	B 0.03 549	B 0.05 549	B 0.03 549	B 0.03 549
55	B 0.1 412	B 0.1 412	B 0.06 412	B 0.04 412	B 0.03 412	B 0.03 412	B 0.02 412	B 0.03 412
56	A 0.09 347	A 0.19 347	A 0.04 347	A 0.04 347	A 0.02 347	A 0.03 347	A 0.02 347	A 0.03 347
57	B 0.12 736	B 0.11 736	B 0.08 736	B 0.06 736	B 0.03 736	B 0.03 736	B 0.03 736	B 0.05 736
58	B 0.11 777	B 0.11 777	B 0.07 777	B 0.05 777	B 0.03 777	B 0.05 777	B 0.03 777	B 0.05 777
59	A 0.09 295	A 0.08 295	A 0.04 295	A 0.04 295	A 0.01 295	A 0.03 295	A 0.02 295	A 0.03 295
60	B 0.08 412	B 0.08 412	B 0.04 412	B 0.04 412	B 0.02 412	B 0.02 412	B 0.02 412	B 0.03 412
61	B 0.08 549	B 0.08 549	B 0.04 549	B 0.04 549	B 0.03 549	B 0.03 549	B 0.02 549	B 0.03 549
62	B 0.1 739	B 0.11 739	B 0.06 739	B 0.05 739	B 0.03 739	B 0.02 739	B 0.02 739	B 0.05 739
63	A 0.17 63	A 0.17 63	A 0.14 63	A 0.12 63	A 0.08 63	A 0.09 63	A 0.07 63	A 0.05 63
64	A 0.13 63	A 0.14 63	A 0.1 63	A 0.09 63	A 0.06 63	A 0.08 63	A 0.05 63	A 0.02 63
65	A 0.14 134	A 0.14 134	A 0.02 156	A 0.02 156	A 0.02 156	A 0. 156	A 0.01 156	A 0.02 156
66	A 0.14 63	A 0.16 63	A 0.12 63	A 0.12 63	A 0.08 63	A 0.09 63	A 0.07 63	A 0.03 63
67	A 0.21 156	A 0.23 157	A 0.18 156	A 0.17 157	A 0.12 157	A 0.16 157	A 0.1 156	A 0.06 156
68	A 0.21 156	A 0.21 157	A 0.17 156	A 0.17 157	A 0.11 157	A 0.16 157	A 0.1 156	A 0.05 156

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Table 84 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
69	A 0.17 63	A 0.19 63	A 0.14 63	A 0.14 63	A 0.08 63	A 0.1 63	A 0.07 63	A 0.05 63
70	A 0.15 246	A 0.16 248	A 0.14 246	A 0.13 248	A 0.08 248	A 0.11 248	A 0.07 246	A 0.11 246
71	A 0.14 63	A 0.14 63	A 0.1 63	A 0.1 63	A 0.06 63	A 0.09 63	A 0.05 63	A 0.03 63
72	A 0.16 63	A 0.17 63	A 0.13 63	A 0.12 63	A 0.08 63	A 0.09 63	A 0.07 63	A 0.05 63
73	A 0.13 63	A 0.14 63	A 0.1 63	A 0.09 63	A 0.06 63	A 0.08 63	A 0.05 63	A 0.05 63
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
76	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
77	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
78	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
79	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.83 $4_Trig_functions\4.1bCosine\4.1.4.2(a+bcos)^m(c+dcos)^n(A+Bcos+Ccos^2)$

Table 85: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.1 85	A 0.13 95	A 0.11 95	A 0.04 95	A 0.02 95	A 0.02 95	A 0.01 95	A 0. 95
2	A 0.11 108	A 0.13 126	A 0.11 126	A 0.04 126	A 0. 126	A 0. 126	A 0. 126	A 0. 126
3	A 0.05 211	A 0.08 211	A 0.04 256	A 0.01 256	A 0. 256	A 0. 256	A 0. 256	A 0. 256
4	A 0.12 107	A 0.15 115	A 0.13 115	A 0.04 115	A 0.01 115	A 0. 115	A 0. 115	A 0. 115
5	A 0.13 210	A 0.17 230	A 0.14 230	A 0.05 230	A 0. 230	A 0. 230	A 0. 230	A 0.02 230
6	A 0.06 286	A 0.08 286	A 0.05 366	A 0.01 366	A 0.02 366	A 0. 366	A 0. 366	A 0.02 366
7	A 0.14 151	A 0.15 161	A 0.14 161	A 0.05 161	A 0.01 161	A 0.02 161	A 0.01 161	A 0. 161
8	A 0.14 212	A 0.17 232	A 0.14 232	A 0.05 232	A 0. 232	A 0.02 232	A 0. 232	A 0. 232
9	A 0.07 393	A 0.09 393	A 0.05 502	A 0.01 502	A 0. 502	A 0. 502	A 0. 502	A 0. 502
10	A 0.13 221	A 0.15 221	A 0.12 221	A 0.06 221	A 0.01 221	A 0.01 221	A 0.01 221	A 0. 221

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Table 85 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
11	A 0.14 191	A 0.17 199	A 0.14 199	A 0.06 199	A 0.02 199	A 0.02 199	A 0.01 199	A 0. 199
12	A 0.15 226	A 0.18 246	A 0.16 246	A 0.06 246	A 0. 246	A 0.02 246	A 0.01 246	A 0. 246
13	A 0.1 121	A 0.13 121	A 0.1 121	A 0.06 121	A 0.02 121	A 0.01 121	A 0.01 121	A 0. 121
14	B 0.11 294	B 0.13 294	B 0.12 294	B 0.05 294	B 0.01 294	B 0.02 294	B 0.01 294	B 0.02 294
15	B 0.07 322	A 0.09 248	A 0.07 248	A 0.03 248	A 0.03 248	A 0.02 248	A 0.01 248	A 0.02 248
16	A 0.06 130	A 0.08 130	A 0.06 130	A 0.03 130	A 0.02 130	A 0.02 130	A 0.01 130	A 0.02 130
17	A 0.05 97	A 0.07 97	A 0.04 97	A 0.02 97	A 0.02 97	A 0.02 97	A 0. 97	A 0.02 97
18	A 0.09 119	A 0.11 119	A 0.09 119	A 0.05 119	A 0.01 119	A 0. 119	A 0.01 119	A 0. 119
19	A 0.05 117	A 0.08 117	A 0.06 117	A 0.02 117	A 0.02 117	A 0.02 117	A 0.01 117	A 0. 117
20	A 0.06 177	A 0.08 177	A 0.06 177	A 0.02 177	A 0.02 177	A 0.02 177	A 0.01 177	A 0.02 177
21	A 0.05 90	A 0.07 90	A 0.05 90	A 0.02 90	A 0.02 90	A 0. 90	A 0. 90	A 0. 90
22	A 0.1 199	A 0.12 199	A 0.1 199	A 0.05 199	A 0.02 199	A 0.02 199	A 0.01 199	A 0.02 199
23	A 0.12 244	A 0.14 244	A 0.12 244	A 0.06 244	A 0.01 244	A 0.02 244	A 0.01 244	A 0.02 244
24	A 0.08 149	A 0.08 149	A 0.04 149	A 0.03 149	A 0.02 149	A 0.03 149	A 0.02 149	A 0.02 149
25	A 0.08 93	A 0.08 93	A 0.04 93	A 0.03 93	A 0.03 93	A 0.03 93	A 0.02 93	A 0.03 93
26	B 0.11 254	B 0.11 254	B 0.06 254	B 0.05 254	B 0.03 254	B 0.03 254	B 0.03 254	B 0.05 254
27	B 0.14 1824	B 0.15 1824	B 0.1 1824	B 0.09 1824	B 0.06 1824	B 0.06 1824	B 0.06 1824	B 0.08 1824
28	A 0.08 151	A 0.09 151	A 0.04 151	A 0.03 151	A 0.02 151	A 0.03 151	A 0.02 151	A 0.02 151
29	B 0.1 313	B 0.11 313	B 0.06 313	B 0.05 313	B 0.03 313	B 0.03 313	B 0.03 313	B 0.05 313
30	B 0.12 498	B 0.12 498	B 0.07 498	B 0.06 498	B 0.05 498	B 0.03 498	B 0.03 498	B 0.06 498
31	B 0.15 2196	B 0.16 2196	B 0.1 2196	B 0.08 2196	B 0.06 2196	B 0.06 2196	B 0.05 2196	B 0.08 2196
32	B 0.12 1824	B 0.12 1824	B 0.08 1824	B 0.07 1824	B 0.05 1824	B 0.05 1824	B 0.04 1824	B 0.06 1824
33	B 0.12 2196	B 0.13 2196	B 0.09 2196	B 0.07 2196	B 0.06 2196	B 0.06 2196	B 0.04 2196	B 0.08 2196
34	B 0.09 284	B 0.09 284	B 0.05 284	B 0.04 284	B 0.02 284	B 0.03 284	B 0.02 284	B 0.03 284
35	B 0.13 2412	B 0.14 2412	B 0.1 2412	B 0.08 2412	B 0.05 2412	B 0.05 2412	B 0.05 2412	B 0.08 2412
36	B 0.11 459	B 0.12 459	B 0.08 459	B 0.07 459	B 0.03 459	B 0.05 459	B 0.03 459	B 0.05 459
37	B 0.12 835	B 0.12 835	B 0.08 835	B 0.06 835	B 0.05 836	B 0.05 835	B 0.04 836	B 0.03 835
38	B 0.09 926	B 0.09 926	B 0.05 926	B 0.04 926	B 0.03 926	B 0.03 926	B 0.03 926	B 0.03 926

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Table 85 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
39	A 0.08 464	A 0.08 464	A 0.04 464	A 0.03 464	A 0.02 464	A 0.02 464	A 0.02 464	A 0.03 464
40	B 0.08 582	B 0.08 582	B 0.04 582	B 0.03 582	B 0.02 582	B 0.02 582	B 0.02 582	B 0.03 582
41	B 0.09 1170	B 0.09 1170	B 0.05 1170	B 0.04 1170	B 0.03 1170	B 0.03 1170	B 0.03 1170	B 0.03 1170
42	B 0.08 459	B 0.08 459	B 0.06 459	B 0.04 459	B 0.03 459	B 0.03 459	B 0.02 459	B 0.02 459
43	B 0.08 366	B 0.08 366	B 0.05 366	B 0.04 366	B 0.02 366	B 0.01 366	B 0.02 366	B 0.03 366
44	B 0.08 746	B 0.09 746	B 0.06 746	B 0.05 746	B 0.03 746	B 0.03 746	B 0.02 746	B 0.02 746
45	B 0.09 847	B 0.09 847	B 0.08 847	B 0.05 847	B 0.03 847	B 0.03 847	B 0.03 847	B 0.03 847
46	A 0.09 501	A 0.09 501	A 0.06 501	A 0.06 501	A 0.02 501	A 0.03 501	A 0.02 501	A 0.03 501
47	B 0.08 487	B 0.08 487	B 0.06 487	B 0.05 487	B 0.02 487	B 0.03 487	B 0.02 487	B 0.03 487
48	B 0.08 473	B 0.08 473	B 0.06 473	B 0.05 473	B 0.03 473	B 0.03 473	B 0.02 473	B 0.05 473
49	B 0.08 473	B 0.08 473	B 0.06 473	B 0.05 473	B 0.03 473	B 0.03 473	B 0.02 473	B 0.03 473
50	B 0.21 434	B 0.21 434	B 0.27 850	B 0.26 850	B 0.19 850	B 0.2 850	B 0.15 850	B 0.14 850
51	B 0.37 362	B 0.4 362	B 0.2 618	B 0.2 618	B 0.12 618	B 0.16 618	B 0.11 618	B 0.11 618
52	A 0.22 77	A 0.2 77	A 0.13 91	A 0.14 91	A 0.07 91	A 0.08 91	A 0.07 91	A 0.08 91
53	A 0.22 99	A 0.21 99	A 0.16 113	A 0.17 113	A 0.11 113	A 0.12 113	A 0.08 113	A 0.08 113
54	A 0.21 347	A 0.2 347	B 0.15 814	B 0.14 814	B 0.1 814	B 0.12 814	B 0.08 814	B 0.09 814
55	A 0.39 168	A 0.4 168	A 0.35 182	A 0.36 182	A 0.29 182	A 0.3 182	A 0.22 182	A 0.16 182
56	A 0.23 253	A 0.23 253	B 0.17 810	B 0.17 810	B 0.11 810	B 0.14 810	B 0.09 810	B 0.06 810
57	B 0.23 283	B 0.22 283	B 0.18 991	B 0.2 991	B 0.12 991	B 0.14 991	B 0.09 991	B 0.08 991
58	B 0.32 536	B 0.29 536	B 0.25 536	B 0.23 536	B 0.21 536	B 0.22 536	B 0.15 536	B 0.16 536
59	B 0.21 365	B 0.21 365	B 0.18 731	B 0.15 731	B 0.11 731	B 0.12 731	B 0.08 731	B 0.05 731
60	A 0.03 70	A 0.05 70	A 0.01 89	A 0.01 89	A 0. 89	A 0.02 89	A 0. 89	A 0. 89
61	A 0.05 128	A 0.07 128	A 0.04 160	A 0.01 160	A 0. 160	A 0.02 160	A 0. 160	A 0. 160
62	A 0.1 65	B 0.12 73	B 0.09 73	B 0.04 73	B 0. 73	B 0. 73	B 0. 73	B 0.02 73
63	A 0.11 171	A 0.14 191	A 0.11 191	A 0.04 191	A 0.01 191	A 0. 191	A 0. 191	A 0.02 191
64	A 0.09 116	A 0.11 116	A 0.09 124	A 0.04 124	A 0. 124	A 0. 124	A 0. 124	A 0. 124
65	A 0.12 141	A 0.14 161	A 0.11 161	A 0.04 161	A 0.01 161	A 0.02 161	A 0.01 161	A 0. 161
66	A 0.06 266	A 0.08 266	A 0.04 334	A 0.01 334	A 0. 334	A 0. 334	A 0. 334	A 0.02 334

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Table 85 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
67	A	0.14	153	A	0.16	153	A	0.12	153	A	0.05	153	A	0.01	153	A	0.02	153	A	0.01	153	A	0.	153
68	A	0.13	158	A	0.15	178	A	0.12	178	A	0.05	178	A	0.01	178	A	0.02	178	A	0.01	178	A	0.02	178
69	B	0.06	281	B	0.08	240	B	0.06	240	B	0.03	240	B	0.02	240	B	0.02	240	B	0.01	240	B	0.02	240
70	B	0.1	163	B	0.11	163	B	0.09	163	B	0.05	163	B	0.02	163	B	0.02	163	B	0.01	163	B	0.02	163
71	B	0.07	322	A	0.09	281	A	0.06	281	A	0.03	281	A	0.02	281	A	0.01	281	A	0.01	281	A	0.	281
72	A	0.06	189	A	0.08	189	A	0.06	189	A	0.03	189	A	0.02	189	A	0.02	189	A	0.01	189	A	0.02	189
73	A	0.06	137	A	0.07	137	A	0.05	137	A	0.02	137	A	0.	137	A	0.02	137	A	0.	137	A	0.	137
74	A	0.09	64	A	0.12	64	A	0.07	64	A	0.04	64	A	0.02	64	A	0.	64	A	0.	64	A	0.02	64
75	A	0.12	334	A	0.14	334	A	0.13	334	A	0.06	334	A	0.03	334	A	0.03	334	A	0.01	334	A	0.02	334
76	A	0.08	107	A	0.08	107	A	0.04	107	A	0.03	107	A	0.02	107	A	0.03	107	A	0.02	107	A	0.03	107
77	A	0.07	165	A	0.08	165	A	0.04	165	A	0.03	165	A	0.02	165	A	0.03	165	A	0.02	165	A	0.02	165
78	B	0.08	308	B	0.09	308	B	0.05	308	B	0.04	308	B	0.03	308	B	0.03	308	B	0.02	308	B	0.03	308
79	A	0.03	57	A	0.05	57	A	0.02	65	A	0.01	65	A	0.	65	A	0.	65	A	0.	65	A	0.	65
80	A	0.05	173	A	0.07	173	A	0.04	213	A	0.01	213	A	0.	213	A	0.	213	A	0.	213	A	0.	213
81	A	0.09	100	A	0.11	100	A	0.08	100	A	0.04	100	A	0.01	100	A	0.	100	A	0.	100	A	0.02	100
82	A	0.11	117	B	0.13	135	B	0.11	135	B	0.04	135	B	0.	135	B	0.01	135	B	0.	135	B	0.	135
83	A	0.05	247	A	0.08	247	A	0.04	296	A	0.01	296	A	0.	296	A	0.	296	A	0.	296	A	0.	296
84	A	0.12	160	A	0.15	168	A	0.12	168	A	0.05	168	A	0.01	168	A	0.02	168	A	0.	168	A	0.02	168
85	A	0.12	166	A	0.15	184	A	0.13	184	A	0.05	184	A	0.02	184	A	0.	184	A	0.01	184	A	0.	184
86	A	0.14	219	A	0.18	237	A	0.15	237	A	0.06	237	A	0.02	237	A	0.02	237	A	0.	237	A	0.02	237
87	B	0.07	577	B	0.09	577	B	0.06	745	B	0.01	745	B	0.	745	B	0.	745	B	0.	745	B	0.	745
88	A	0.17	294	A	0.21	324	A	0.16	324	A	0.06	324	A	0.	324	A	0.02	324	A	0.01	324	A	0.	324
89	B	0.07	526	B	0.09	409	B	0.06	409	B	0.04	409	B	0.01	409	B	0.02	409	B	0.01	409	B	0.02	409
90	B	0.06	420	B	0.08	309	B	0.06	309	B	0.04	309	B	0.01	309	B	0.02	309	B	0.01	309	B	0.02	309
91	B	0.06	248	A	0.08	211	A	0.06	211	A	0.04	211	A	0.03	211	A	0.02	211	A	0.01	211	A	0.	211
92	A	0.06	135	A	0.07	135	A	0.04	135	A	0.02	135	A	0.	135	A	0.02	135	A	0.01	135	A	0.02	135
93	B	0.07	542	A	0.09	431	A	0.07	431	A	0.04	431	A	0.02	431	A	0.02	431	A	0.01	431	A	0.02	431
94	A	0.12	277	A	0.16	277	A	0.1	277	A	0.05	277	A	0.01	277	A	0.02	277	A	0.01	277	A	0.02	277

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Table 85 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
95	B 0.13 2128	B 0.13 2128	B 0.08 2128	B 0.07 2128	B 0.05 2128	B 0.05 2128	B 0.04 2128	B 0.06 2128
96	A 0.08 196	A 0.08 196	A 0.04 196	A 0.03 196	A 0.03 196	A 0.03 196	A 0.02 196	A 0.03 196
97	B 0.12 477	B 0.12 477	B 0.07 477	B 0.06 477	B 0.04 477	B 0.03 477	B 0.03 477	B 0.05 477
98	B 0.13 2163	B 0.13 2163	B 0.08 2163	B 0.07 2163	B 0.03 2163	B 0.05 2163	B 0.04 2163	B 0.06 2163
99	B 0.14 2686	B 0.14 2686	B 0.09 2686	B 0.08 2686	B 0.05 2686	B 0.05 2686	B 0.04 2686	B 0.06 2686
100	B 0.09 393	B 0.09 393	B 0.05 393	B 0.04 393	B 0.03 393	B 0.02 393	B 0.02 393	B 0.02 393
101	B 0.15 3568	B 0.14 3568	B 0.1 3568	B 0.08 3568	B 0.05 3568	B 0.06 3568	B 0.04 3568	B 0.06 3568
102	B 0.12 472	B 0.13 472	B 0.08 472	B 0.06 472	B 0.04 472	B 0.03 472	B 0.03 472	B 0.05 472
103	B 0.14 2292	B 0.14 2292	B 0.1 2292	B 0.07 2292	B 0.06 2292	B 0.05 2292	B 0.04 2292	B 0.06 2292
104	B 0.14 3033	B 0.14 3033	B 0.1 3033	B 0.07 3033	B 0.06 3033	B 0.05 3033	B 0.04 3033	B 0.08 3033
105	B 0.13 1353	B 0.12 1353	B 0.09 1353	B 0.07 1353	B 0.05 1353	B 0.05 1353	B 0.04 1353	B 0.05 1353
106	B 0.06 286	B 0.06 286	B 0.03 286	B 0.03 286	B 0.02 286	B 0.03 286	B 0.02 286	B 0.02 286
107	B 0.07 546	B 0.08 546	B 0.04 546	B 0.03 546	B 0.02 546	B 0.02 546	B 0.02 546	B 0.02 546
108	B 0.08 779	B 0.08 779	B 0.04 779	B 0.04 779	B 0.01 779	B 0.03 779	B 0.02 779	B 0.03 779
109	B 0.08 646	B 0.09 646	B 0.04 646	B 0.04 646	B 0.02 646	B 0.01 646	B 0.02 646	B 0.03 646
110	B 0.14 1552	B 0.14 1552	B 0.09 1552	B 0.08 1552	B 0.06 1552	B 0.08 1552	B 0.06 1552	B 0.09 1552
111	B 0.09 642	B 0.09 642	B 0.06 642	B 0.05 642	B 0.03 642	B 0.03 642	B 0.02 642	B 0.03 642
112	B 0.09 533	B 0.09 533	B 0.06 533	B 0.04 533	B 0.03 533	B 0.03 533	B 0.02 533	B 0.03 533
113	B 0.09 718	B 0.09 718	B 0.06 718	B 0.04 718	B 0.03 718	B 0.03 718	B 0.02 718	B 0.03 718
114	B 0.09 1382	B 0.09 1382	B 0.07 1382	B 0.05 1382	B 0.03 1382	B 0.02 1382	B 0.02 1382	B 0.03 1382
115	A 0.21 283	A 0.21 283	B 0.18 679	B 0.16 679	B 0.12 679	B 0.11 679	B 0.09 679	B 0.11 679
116	B 0.22 565	B 0.23 565	B 0.18 1775	B 0.17 1775	B 0.11 1775	B 0.12 1775	B 0.1 1775	B 0.14 1775
117	B 0.31 421	B 0.33 421	B 0.3 1292	B 0.27 1292	B 0.19 1292	B 0.22 1292	B 0.15 1292	B 0.08 1292
118	A 0.2 240	A 0.19 240	B 0.16 663	B 0.13 663	B 0.1 663	B 0.11 663	B 0.07 663	B 0.06 663
119	B 0.28 787	B 0.29 787	B 0.25 787	B 0.26 787	B 0.17 787	B 0.22 787	B 0.15 787	B 0.17 787
120	B 0.3 542	B 0.31 542	B 0.29 1456	B 0.26 1456	B 0.19 1456	B 0.22 1456	B 0.15 1456	B 0.08 1456
121	A 0.03 96	A 0.05 96	A 0.02 109	A 0.01 109	A 0. 109	A 0. 109	A 0. 109	A 0. 109
122	A 0.09 183	A 0.11 191	A 0.07 191	A 0.03 191	A 0.02 191	A 0.02 191	A 0.01 191	A 0. 191

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
123	A	0.1	195	A	0.12	221	A	0.08	221	A	0.03	221	A	0.	221	A	0.02	221	A	0.	221	A	0.	221
124	A	0.04	332	A	0.06	332	A	0.03	419	A	0.01	419	A	0.02	419	A	0.	419	A	0.	419	A	0.	419
125	A	0.1	259	A	0.12	269	A	0.1	269	A	0.03	269	A	0.	269	A	0.02	269	A	0.01	269	A	0.02	269
126	A	0.11	316	A	0.13	346	A	0.08	346	A	0.04	346	A	0.02	346	A	0.	346	A	0.	346	A	0.02	346
127	B	0.13	394	B	0.14	499	B	0.13	499	B	0.08	499	B	0.04	499	B	0.05	499	B	0.02	499	B	0.02	499
128	B	0.15	638	B	0.16	747	B	0.15	747	B	0.08	747	B	0.04	747	B	0.03	747	B	0.02	747	B	0.03	747
129	B	0.16	2337	B	0.16	2188	B	0.14	2188	B	0.1	2188	B	0.03	2188	B	0.03	2188	B	0.02	2188	B	0.02	2188
130	B	0.16	2234	B	0.18	1936	B	0.15	1936	B	0.1	1936	B	0.05	1936	B	0.05	1936	B	0.02	1936	B	0.03	1936
131	B	0.06	350	B	0.08	305	B	0.05	305	B	0.04	305	B	0.03	305	B	0.03	305	B	0.01	305	B	0.02	305
132	B	0.04	145	B	0.07	145	B	0.04	145	B	0.03	145	B	0.02	145	B	0.02	145	B	0.01	145	B	0.02	145
133	A	0.08	137	B	0.1	340	B	0.08	340	B	0.06	340	B	0.03	340	B	0.02	340	B	0.02	340	B	0.02	340
134	B	0.12	364	B	0.12	583	B	0.11	583	B	0.07	583	B	0.05	583	B	0.05	583	B	0.02	583	B	0.02	583
135	B	0.08	786	B	0.09	1107	B	0.07	1107	B	0.05	1107	B	0.03	1107	B	0.03	1107	B	0.02	1107	B	0.03	1107
136	B	0.07	576	B	0.08	944	B	0.06	944	B	0.04	944	B	0.03	944	B	0.02	944	B	0.01	944	B	0.02	944
137	B	0.12	747	B	0.14	1114	B	0.13	1114	B	0.07	1114	B	0.03	1114	B	0.05	1114	B	0.02	1114	B	0.03	1114
138	B	0.1	1774	B	0.11	1774	B	0.06	1774	B	0.06	1774	B	0.05	1774	B	0.05	1774	B	0.04	1774	B	0.06	1774
139	B	0.09	875	B	0.08	875	B	0.04	875	B	0.04	875	B	0.02	875	B	0.03	875	B	0.02	875	B	0.03	875
140	B	0.13	2728	B	0.13	2728	B	0.09	2728	B	0.08	2728	B	0.05	2728	B	0.08	2728	B	0.06	2728	B	0.09	2728
141	B	0.09	950	B	0.09	950	B	0.05	950	B	0.04	950	B	0.02	950	B	0.03	950	B	0.02	950	B	0.03	950
142	B	0.12	976	B	0.12	976	B	0.08	976	B	0.06	976	B	0.03	976	B	0.05	976	B	0.03	976	B	0.05	976
143	B	0.08	850	B	0.08	850	B	0.05	850	B	0.04	850	B	0.03	850	B	0.03	850	B	0.03	850	B	0.03	850
144	B	0.11	2135	B	0.12	2135	B	0.07	2135	B	0.06	2135	B	0.05	2135	B	0.06	2135	B	0.05	2135	B	0.08	2135
145	B	0.13	1101	B	0.12	1101	B	0.08	1101	B	0.07	1101	B	0.05	1101	B	0.06	1101	B	0.04	1101	B	0.06	1101
146	B	0.15	1658	B	0.13	1658	B	0.09	1658	B	0.08	1658	B	0.06	1658	B	0.06	1658	B	0.05	1658	B	0.06	1658
147	B	0.12	941	B	0.12	941	B	0.07	941	B	0.06	941	B	0.05	941	B	0.05	941	B	0.04	941	B	0.05	941
148	B	0.08	696	B	0.08	696	B	0.05	696	B	0.04	696	B	0.03	696	B	0.03	696	B	0.02	696	B	0.03	696
149	B	0.07	901	B	0.08	901	B	0.04	901	B	0.04	901	B	0.03	901	B	0.02	901	B	0.02	901	B	0.03	901
150	B	0.09	1573	B	0.09	1573	B	0.05	1573	B	0.04	1573	B	0.03	1573	B	0.03	1573	B	0.03	1573	B	0.05	1573

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
151	B 0.1 1218	B 0.1 1218	B 0.06 1218	B 0.05 1218	B 0.05 1218	B 0.05 1218	B 0.03 1218	B 0.05 1218
152	B 0.09 1386	B 0.1 1386	B 0.06 1386	B 0.05 1386	B 0.04 1386	B 0.03 1386	B 0.04 1386	B 0.05 1386
153	B 0.09 2253	B 0.11 2253	B 0.05 2253	B 0.04 2253	B 0.03 2253	B 0.03 2253	B 0.02 2253	B 0.03 2253
154	B 0.09 1873	B 0.1 1873	B 0.06 1873	B 0.06 1873	B 0.04 1873	B 0.05 1873	B 0.03 1873	B 0.06 1873
155	B 0.08 561	B 0.08 561	B 0.06 563	B 0.05 563	B 0.03 563	B 0.05 563	B 0.03 563	B 0.05 563
156	B 0.09 1525	B 0.09 1525	B 0.07 1531	B 0.05 1531	B 0.04 1531	B 0.05 1531	B 0.04 1531	B 0.05 1531
157	B 0.22 2165	B 0.24 2165	B 0.18 2165	B 0.17 2165	B 0.14 2165	B 0.19 2165	B 0.12 2165	B 0.17 2168
158	B 0.42 2971	B 0.45 2971	B 0.37 2971	B 0.37 2971	B 0.31 2971	B 0.41 2971	B 0.29 2971	B 0.47 2971
159	B 0.53 4110	B 0.63 4110	B 0.58 4110	B 0.56 4110	B 0.56 4110	B 0.68 4110	B 0.51 4110	B 0.9 4110
160	B 0.16 939	B 0.17 939	B 0.16 939	B 0.13 939	B 0.1 939	B 0.14 939	B 0.08 939	B 0.09 939
161	B 0.24 992	B 0.26 992	B 0.22 992	B 0.21 992	B 0.18 992	B 0.22 992	B 0.14 992	B 0.2 992
162	B 0.31 2235	B 0.31 2235	B 0.27 2235	B 0.26 2235	B 0.22 2235	B 0.26 2235	B 0.19 2235	B 0.28 2235
163	B 0.4 2767	B 0.43 2767	B 0.4 2767	B 0.38 2767	B 0.33 2767	B 0.4 2767	B 0.3 2767	B 0.5 2767
164	A 0.08 56	A 0.09 56	A 0.05 56	A 0.02 56	A 0.02 56	A 0. 56	A 0. 56	A 0. 56
165	A 0.07 86	A 0.08 104	A 0.07 104	A 0.02 104	A 0. 104	A 0. 104	A 0.01 104	A 0.02 104
166	A 0.07 171	A 0.09 191	A 0.06 191	A 0.02 191	A 0.02 191	A 0.02 191	A 0. 191	A 0.02 191
167	A 0.07 114	A 0.08 114	A 0.05 122	A 0.02 122	A 0.02 122	A 0.01 122	A 0. 122	A 0.02 122
168	A 0.09 223	A 0.11 251	A 0.07 251	A 0.03 251	A 0.02 251	A 0.02 251	A 0. 251	A 0. 251
169	B 0.07 641	B 0.09 486	B 0.07 486	B 0.04 486	B 0.03 486	B 0.03 486	B 0.01 486	B 0.02 486
170	B 0.07 367	B 0.09 295	B 0.06 295	B 0.04 295	B 0.03 295	B 0.03 295	B 0.01 295	B 0.02 295
171	B 0.11 886	B 0.12 818	B 0.09 818	B 0.06 818	B 0.02 818	B 0.02 818	B 0.01 818	B 0.02 818
172	B 0.16 1045	B 0.16 1009	B 0.14 1009	B 0.08 1009	B 0.03 1009	B 0.03 1009	B 0.02 1009	B 0.03 1009
173	B 0.1 646	B 0.1 646	B 0.06 646	B 0.04 646	B 0.03 646	B 0.03 646	B 0.03 646	B 0.05 646
174	B 0.12 1685	B 0.12 1685	B 0.08 1685	B 0.06 1685	B 0.05 1685	B 0.05 1685	B 0.03 1685	B 0.02 1685
175	B 0.09 1942	B 0.09 1942	B 0.05 1942	B 0.04 1942	B 0.04 1942	B 0.05 1942	B 0.03 1942	B 0.05 1942
176	B 0.09 1108	B 0.09 1108	B 0.05 1108	B 0.04 1108	B 0.02 1108	B 0.03 1108	B 0.02 1108	B 0.03 1108
177	B 0.12 1423	B 0.12 1423	B 0.08 1423	B 0.06 1423	B 0.04 1423	B 0.03 1423	B 0.03 1423	B 0.03 1423
178	B 0.12 1155	B 0.12 1155	B 0.08 1155	B 0.07 1155	B 0.04 1155	B 0.05 1155	B 0.04 1155	B 0.05 1155

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
179	B 0.11 1485	B 0.11 1485	B 0.07 1485	B 0.06 1485	B 0.05 1485	B 0.05 1485	B 0.04 1485	B 0.06 1485
180	B 0.07 533	B 0.07 533	B 0.03 533	B 0.03 533	B 0.02 533	B 0.03 533	B 0.02 533	B 0.03 533
181	B 0.07 343	B 0.07 343	B 0.04 343	B 0.03 343	B 0.02 343	B 0.02 343	B 0.02 344	B 0.02 343
182	B 0.07 482	B 0.08 482	B 0.04 482	B 0.03 482	B 0.02 482	B 0.03 482	B 0.02 482	B 0.03 482
183	B 0.08 719	B 0.07 719	B 0.04 719	B 0.03 719	B 0.03 719	B 0.03 719	B 0.02 719	B 0.03 719
184	B 0.1 1204	B 0.11 1204	B 0.05 1204	B 0.04 1204	B 0.05 1204	B 0.03 1204	B 0.03 1204	B 0.05 1204
185	B 0.1 1096	B 0.09 1096	B 0.05 1096	B 0.04 1096	B 0.03 1096	B 0.03 1096	B 0.03 1096	B 0.05 1096
186	A 0.07 305	A 0.07 305	A 0.04 305	A 0.04 305	A 0.04 305	A 0.03 305	A 0.02 305	A 0.03 305
187	A 0.08 227	A 0.07 227	A 0.05 227	A 0.04 227	A 0.03 227	A 0.03 227	A 0.02 227	A 0.02 227
188	B 0.1 1535	B 0.09 1535	B 0.06 1541	B 0.06 1541	B 0.06 1541	B 0.05 1541	B 0.04 1541	B 0.05 1541
189	B 0.08 860	B 0.09 860	B 0.06 866	B 0.05 866	B 0.03 866	B 0.05 866	B 0.03 866	B 0.03 866
190	B 0.1 766	B 0.09 766	B 0.06 772	B 0.05 772	B 0.03 772	B 0.03 772	B 0.02 772	B 0.03 772
191	B 0.1 2740	B 0.1 2740	B 0.08 2752	B 0.07 2752	B 0.06 2752	B 0.05 2752	B 0.05 2752	B 0.09 2752
192	B 0.1 2328	B 0.1 2328	B 0.07 2340	B 0.06 2340	B 0.04 2340	B 0.06 2340	B 0.04 2340	B 0.06 2340
193	B 0.09 1971	B 0.09 1971	B 0.07 1983	B 0.06 1983	B 0.03 1983	B 0.05 1983	B 0.04 1983	B 0.06 1983
194	B 0.29 2479	B 0.32 2479	B 0.24 2479	B 0.23 2479	B 0.19 2479	B 0.23 2479	B 0.17 2479	B 0.23 2479
195	B 0.23 2188	B 0.24 2185	B 0.18 2185	B 0.18 2185	B 0.15 2185	B 0.17 2185	B 0.12 2185	B 0.17 2185
196	B 0.59 5164	B 0.72 5164	B 0.42 5101	B 0.43 5101	B 0.38 5101	B 0.47 5101	B 0.33 5101	B 0.53 5101
197	B 0.25 1871	B 0.27 1871	B 0.22 1870	B 0.22 1871	B 0.17 1870	B 0.2 1871	B 0.14 1871	B 0.2 1870
198	B 0.3 1005	B 0.33 1005	B 0.29 1005	B 0.28 1005	B 0.25 1005	B 0.26 1005	B 0.17 1005	B 0.09 1005
199	B 0.29 2282	B 0.31 2282	B 0.26 2282	B 0.24 2282	B 0.2 2282	B 0.25 2282	B 0.17 2282	B 0.22 2282
200	A 0.07 100	A 0.09 100	A 0.05 100	A 0.03 100	A 0.02 100	A 0. 100	A 0. 100	A 0.02 100
201	A 0.03 200	A 0.06 200	A 0.02 222	A 0.01 222	A 0. 222	A 0. 222	A 0. 222	A 0.02 222
202	A 0.04 301	A 0.06 301	A 0.02 353	A 0.01 353	A 0. 353	A 0.02 353	A 0. 353	A 0. 353
203	A 0.1 278	A 0.12 286	A 0.07 286	A 0.04 286	A 0.01 286	A 0.02 286	A 0. 286	A 0. 286
204	A 0.1 294	A 0.13 330	A 0.08 330	A 0.03 330	A 0.01 330	A 0.02 330	A 0.01 330	A 0.02 330
205	A 0.05 505	A 0.07 505	A 0.04 632	A 0.01 632	A 0. 632	A 0.02 632	A 0. 632	A 0. 632
206	A 0.11 434	A 0.13 442	A 0.09 442	A 0.04 442	A 0.01 442	A 0.01 442	A 0.01 442	A 0.02 442

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
207	A 0.12 374	A 0.15 392	A 0.11 392	A 0.04 392	A 0. 392	A 0.02 392	A 0.01 392	A 0. 392
208	A 0.04 276	A 0.06 276	A 0.03 318	A 0.01 318	A 0. 318	A 0.02 318	A 0. 318	A 0.02 318
209	B 0.13 825	B 0.15 825	B 0.12 825	B 0.07 825	B 0.03 825	B 0.03 825	B 0.02 825	B 0.02 825
210	B 0.15 914	B 0.16 1076	B 0.15 1076	B 0.08 1076	B 0.05 1076	B 0.03 1076	B 0.03 1076	B 0.02 1076
211	B 0.07 2667	B 0.08 2392	B 0.07 2392	B 0.03 2392	B 0.02 2392	B 0.02 2392	B 0.01 2392	B 0.02 2392
212	B 0.08 299	B 0.1 398	B 0.06 398	B 0.04 398	B 0.02 398	B 0.02 398	B 0.01 398	B 0.02 398
213	B 0.1 2553	B 0.1 2553	B 0.06 2553	B 0.05 2553	B 0.03 2553	B 0.03 2553	B 0.03 2553	B 0.05 2553
214	B 0.13 1677	B 0.13 1677	B 0.08 1677	B 0.06 1677	B 0.03 1677	B 0.05 1677	B 0.03 1677	B 0.05 1677
215	B 0.14 1408	B 0.12 1408	B 0.06 1408	B 0.06 1408	B 0.03 1408	B 0.05 1408	B 0.03 1408	B 0.03 1408
216	B 0.12 2088	B 0.12 2088	B 0.08 2088	B 0.07 2088	B 0.04 2088	B 0.05 2088	B 0.03 2088	B 0.05 2088
217	B 0.1 3202	B 0.1 3202	B 0.06 3202	B 0.06 3202	B 0.03 3202	B 0.05 3202	B 0.04 3202	B 0.06 3202
218	B 0.13 3434	B 0.13 3434	B 0.08 3434	B 0.06 3434	B 0.03 3434	B 0.05 3434	B 0.04 3434	B 0.05 3434
219	B 0.11 1502	B 0.1 1502	B 0.06 1502	B 0.04 1502	B 0.04 1502	B 0.05 1502	B 0.03 1502	B 0.05 1502
220	B 0.1 1105	B 0.12 1105	B 0.06 1105	B 0.04 1105	B 0.03 1105	B 0.03 1105	B 0.03 1105	B 0.05 1105
221	B 0.14 2664	B 0.13 2664	B 0.08 2664	B 0.06 2664	B 0.04 2664	B 0.03 2664	B 0.03 2664	B 0.05 2664
222	B 0.12 710	B 0.12 710	B 0.08 710	B 0.06 710	B 0.04 710	B 0.05 710	B 0.03 710	B 0.03 710
223	B 0.13 1105	B 0.13 1105	B 0.1 1105	B 0.07 1105	B 0.05 1105	B 0.05 1105	B 0.04 1105	B 0.06 1105
224	B 0.08 1121	B 0.08 1121	B 0.04 1121	B 0.03 1121	B 0.02 1121	B 0.03 1121	B 0.02 1121	B 0.03 1121
225	B 0.11 2154	B 0.11 2154	B 0.07 2154	B 0.06 2154	B 0.04 2154	B 0.05 2154	B 0.04 2154	B 0.06 2154
226	B 0.07 953	B 0.09 953	B 0.04 955	B 0.04 955	B 0.02 955	B 0.02 955	B 0.02 955	B 0.03 955
227	B 0.08 1042	B 0.08 1042	B 0.04 1042	B 0.05 1042	B 0.03 1042	B 0.03 1042	B 0.02 1042	B 0.05 1042
228	B 0.09 1632	B 0.09 1632	B 0.07 1638	B 0.06 1638	B 0.03 1638	B 0.05 1638	B 0.04 1638	B 0.05 1638
229	B 0.28 2507	B 0.29 2507	B 0.26 2507	B 0.26 2507	B 0.2 2507	B 0.27 2507	B 0.18 2507	B 0.26 2507
230	B 0.27 3598	B 0.31 3598	B 0.29 3598	B 0.29 3598	B 0.23 3598	B 0.31 3598	B 0.23 3598	B 0.33 3598
231	B 0.48 5956	B 0.6 5956	B 0.61 5956	B 0.59 5956	B 0.59 5956	B 0.72 5956	B 0.56 5956	B 1.06 5956
232	B 0.22 2248	B 0.26 2248	B 0.22 2248	B 0.21 2248	B 0.14 2248	B 0.2 2248	B 0.13 2248	B 0.17 2248
233	B 0.2 1321	B 0.2 1321	B 0.19 1321	B 0.17 1321	B 0.13 1321	B 0.16 1321	B 0.11 1321	B 0.12 1321
234	B 0.25 3134	B 0.27 3134	B 0.24 3134	B 0.22 3134	B 0.16 3134	B 0.22 3134	B 0.15 3134	B 0.26 3134

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	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
235	B 0.33 4337	B 0.38 4337	B 0.36 4337	B 0.35 4337	B 0.31 4337	B 0.39 4337	B 0.28 4337	B 0.5 4337
236	B 0.57 8239	B 0.68 8236	B 0.7 8272	B 0.74 8272	B 0.73 8269	B 0.82 8269	B 0.58 8272	B 0.84 8269
237	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
238	A 0.1 420	A 0.1 420	A 0.05 420	A 0.03 420	A 0.03 420	A 0.02 420	A 0.02 420	A 0.03 420
239	B 0.11 1013	B 0.11 1013	B 0.06 1013	B 0.04 1013	B 0.03 1013	B 0.05 1013	B 0.02 1013	B 0.03 1013
240	B 0.1 846	B 0.11 846	B 0.06 846	B 0.03 846	B 0.03 846	B 0.01 846	B 0.02 846	B 0.03 846
241	A 0.1 464	A 0.11 464	A 0.06 464	A 0.03 464	A 0.01 464	A 0.02 464	A 0.02 464	A 0.03 464
242	B 0.09 408	B 0.1 408	B 0.06 408	B 0.04 408	B 0.02 408	B 0.02 408	B 0.02 408	B 0.02 408
243	A 0.1 465	A 0.1 465	A 0.07 465	A 0.04 465	A 0.03 465	A 0.03 465	A 0.02 465	A 0.03 465
244	B 0.11 445	B 0.11 445	B 0.07 445	B 0.04 445	B 0.02 445	B 0.02 445	B 0.02 445	B 0.03 445
245	A 0.11 366	A 0.1 366	A 0.06 366	A 0.04 366	A 0.02 366	A 0.02 366	A 0.02 366	A 0.03 366
246	A 0.11 473	A 0.11 473	A 0.07 473	A 0.04 473	A 0.02 473	A 0.02 473	A 0.02 473	A 0.02 473
247	A 0.34 129	A 0.32 129	A 0.31 168	A 0.28 168	A 0.2 168	A 0.2 168	A 0.15 168	A 0.14 168
248	A 0.37 152	A 0.37 152	A 0.38 190	A 0.32 190	A 0.24 190	A 0.28 190	A 0.2 190	A 0.16 190
249	B 0.32 371	B 0.41 371	B 0.24 408	B 0.2 408	B 0.13 408	B 0.16 408	B 0.11 408	B 0.12 408
250	A 0.25 345	A 0.26 345	B 0.2 659	B 0.17 659	B 0.09 659	B 0.11 659	B 0.09 659	B 0.14 659
251	A 0.31 132	A 0.31 132	A 0.29 174	A 0.25 174	A 0.2 174	A 0.19 174	A 0.14 174	A 0.12 174
252	A 0.38 391	A 0.39 391	B 0.18 429	B 0.15 429	B 0.11 429	B 0.11 429	B 0.08 429	B 0.09 429
253	B 0.36 775	B 0.36 775	B 0.31 805	B 0.3 805	B 0.21 805	B 0.25 805	B 0.17 805	B 0.16 805
254	B 0.4 639	B 0.43 639	B 0.35 659	B 0.33 659	B 0.23 659	B 0.3 659	B 0.2 659	B 0.12 659
255	B 0.29 445	B 0.29 445	B 0.23 445	B 0.2 445	B 0.14 445	B 0.17 445	B 0.12 445	B 0.09 445
256	B 0.08 494	B 0.09 494	B 0.05 494	B 0.04 494	B 0.03 494	B 0.03 494	B 0.02 494	B 0.03 494
257	B 0.09 437	B 0.08 437	B 0.04 437	B 0.03 437	B 0.04 437	B 0.03 437	B 0.02 437	B 0.03 437
258	B 0.09 516	B 0.1 516	B 0.05 516	B 0.04 516	B 0.03 516	B 0.03 516	B 0.02 516	B 0.03 516
259	B 0.08 409	B 0.08 409	B 0.04 409	B 0.03 409	B 0.04 409	B 0.02 409	B 0.02 409	B 0.02 409
260	B 0.11 604	B 0.11 604	B 0.06 604	B 0.03 604	B 0.02 604	B 0.03 604	B 0.02 604	B 0.03 604
261	B 0.11 1552	B 0.12 1552	B 0.06 1552	B 0.04 1552	B 0.03 1552	B 0.05 1552	B 0.03 1552	B 0.05 1552
262	B 0.12 1381	B 0.13 1381	B 0.07 1381	B 0.05 1381	B 0.04 1381	B 0.03 1381	B 0.03 1381	B 0.05 1381

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
263	B	0.11	604	B	0.12	604	B	0.06	604	B	0.04	604	B	0.02	604	B	0.03	604	B	0.02	604	B	0.03	604
264	B	0.11	591	B	0.16	591	B	0.07	591	B	0.05	591	B	0.03	591	B	0.05	591	B	0.03	591	B	0.05	591
265	B	0.11	572	B	0.11	572	B	0.07	572	B	0.05	572	B	0.03	572	B	0.04	572	B	0.02	572	B	0.03	572
266	B	0.1	718	B	0.1	718	B	0.06	718	B	0.04	718	B	0.02	718	B	0.03	718	B	0.02	718	B	0.03	718
267	A	0.35	171	A	0.39	171	A	0.19	252	A	0.17	252	A	0.11	252	A	0.12	252	A	0.09	252	A	0.08	252
268	A	0.3	138	A	0.32	138	A	0.17	222	A	0.14	222	A	0.1	222	A	0.09	222	A	0.08	222	A	0.06	222
269	B	0.28	481	B	0.29	481	B	0.22	957	B	0.18	957	B	0.13	957	B	0.13	957	B	0.11	957	B	0.16	957
270	A	0.49	240	A	0.52	240	A	0.61	321	A	0.56	321	A	0.44	321	A	0.44	321	A	0.34	321	A	0.22	321
271	B	0.3	673	B	0.29	673	B	0.05	780	B	0.03	780	B	0.02	780	B	0.02	780	B	0.01	780	B	0.02	780
272	B	0.29	477	B	0.29	477	B	0.52	827	B	0.44	827	B	0.33	827	B	0.36	827	B	0.25	827	B	0.19	827
273	A	0.28	247	A	0.29	247	B	0.23	454	B	0.19	454	B	0.11	454	B	0.12	454	B	0.09	454	B	0.11	454
274	B	0.28	434	B	0.29	433	B	0.22	434	B	0.2	433	B	0.14	433	B	0.16	433	B	0.1	433	B	0.09	434
275	B	0.27	624	B	0.29	624	B	0.24	1230	B	0.18	1230	B	0.11	1230	B	0.12	1230	B	0.09	1230	B	0.09	1230
276	B	0.1	925	B	0.11	925	B	0.09	925	B	0.04	925	B	0.03	925	B	0.04	925	B	0.03	925	B	0.05	925
277	B	0.09	402	B	0.09	402	B	0.05	402	B	0.03	402	B	0.02	402	B	0.03	402	B	0.02	402	B	0.03	402
278	B	0.1	475	B	0.09	475	B	0.05	475	B	0.04	475	B	0.01	475	B	0.02	475	B	0.02	475	B	0.03	475
279	B	0.09	563	B	0.1	563	B	0.05	563	B	0.03	563	B	0.03	563	B	0.03	563	B	0.02	563	B	0.03	563
280	B	0.1	769	B	0.1	769	B	0.05	769	B	0.04	769	B	0.03	769	B	0.03	769	B	0.02	769	B	0.02	769
281	B	0.1	950	B	0.11	950	B	0.05	950	B	0.04	950	B	0.03	950	B	0.03	950	B	0.02	950	B	0.03	950
282	B	0.11	1107	B	0.11	1107	B	0.06	1107	B	0.04	1107	B	0.02	1107	B	0.03	1107	B	0.02	1107	B	0.03	1107
283	B	0.1	763	B	0.1	763	B	0.06	763	B	0.04	763	B	0.02	763	B	0.03	763	B	0.02	763	B	0.03	763
284	B	0.12	1214	B	0.12	1214	B	0.08	1220	B	0.06	1220	B	0.04	1220	B	0.05	1220	B	0.03	1220	B	0.03	1220
285	B	0.13	2223	B	0.13	2223	B	0.09	2235	B	0.07	2235	B	0.06	2235	B	0.05	2235	B	0.05	2235	B	0.06	2235
286	B	0.14	2428	B	0.14	2428	B	0.09	2440	B	0.07	2440	B	0.04	2440	B	0.06	2440	B	0.05	2440	B	0.06	2440
287	B	0.36	2442	B	0.37	2442	B	0.25	2364	B	0.23	2364	B	0.17	2364	B	0.2	2364	B	0.14	2364	B	0.09	2364
288	B	0.42	2618	B	0.38	2618	B	0.34	2617	B	0.31	2622	B	0.24	2622	B	0.3	2622	B	0.19	2622	B	0.23	2622
289	B	0.45	3381	B	0.49	3381	B	0.68	3332	B	0.71	3334	B	0.56	3332	B	0.64	3332	B	0.44	3332	B	0.34	3334
290	B	0.44	3497	B	0.48	3497	B	0.36	3396	B	0.32	3396	B	0.26	3393	B	0.33	3393	B	0.23	3393	B	0.36	3396

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Table 85 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
291	B	0.41	3203	B	0.45	3203	B	0.24	3136	B	0.21	3136	B	0.14	3134	B	0.2	3134	B	0.13	3134	B	0.19	3134
292	B	0.42	2775	B	0.46	2775	B	0.39	2775	B	0.37	2775	B	0.33	2775	B	0.4	2775	B	0.29	2775	B	0.48	2775
293	B	0.47	4077	B	0.48	4077	B	0.41	4077	B	0.36	4077	B	0.33	4077	B	0.45	4077	B	0.31	4077	B	0.5	4077
294	B	0.32	2498	B	0.32	2502	B	0.25	2498	B	0.22	2498	B	0.15	2502	B	0.19	2502	B	0.14	2498	B	0.19	2498
295	B	0.42	6427	B	0.42	6427	B	0.36	6463	B	0.32	6463	B	0.25	6463	B	0.36	6463	B	0.25	6463	B	0.39	6463
296	B	0.1	789	B	0.1	789	B	0.06	789	B	0.04	789	B	0.02	789	B	0.03	789	B	0.02	789	B	0.03	789
297	B	0.14	1315	B	0.15	1315	B	0.08	1315	B	0.06	1315	B	0.05	1315	B	0.05	1315	B	0.04	1315	B	0.05	1315
298	B	0.13	1870	B	0.13	1870	B	0.07	1870	B	0.04	1870	B	0.03	1870	B	0.05	1870	B	0.03	1870	B	0.05	1870
299	B	0.12	571	B	0.13	571	B	0.07	573	B	0.05	573	B	0.03	573	B	0.05	573	B	0.03	573	B	0.05	573
300	A	0.1	333	A	0.12	333	A	0.06	333	A	0.04	333	A	0.03	333	A	0.03	333	A	0.02	333	A	0.03	333
301	B	0.13	1028	B	0.12	1028	B	0.08	1034	B	0.06	1034	B	0.05	1034	B	0.05	1034	B	0.04	1034	B	0.05	1034
302	B	0.55	5495	B	0.63	5495	B	0.53	5495	B	0.5	5495	B	0.55	5495	B	0.59	5495	B	0.44	5495	B	0.81	5495
303	B	1.06	7237	B	1.32	7237	B	0.95	7150	B	0.94	7150	B	0.87	7150	B	1.05	7150	B	0.79	7150	B	1.45	7150
304	B	0.58	5875	B	0.66	5875	B	0.53	5822	B	0.49	5822	B	0.43	5822	B	0.48	5822	B	0.34	5822	B	0.58	5822
305	B	0.35	1740	B	0.34	1740	B	0.26	1744	B	0.23	1740	B	0.16	1740	B	0.22	1740	B	0.15	1740	B	0.23	1740
306	B	0.34	1182	B	0.36	1182	B	0.29	1182	B	0.25	1182	B	0.19	1182	B	0.23	1182	B	0.15	1182	B	0.14	1182
307	B	0.34	3694	B	0.43	3698	B	0.27	3694	B	0.24	3698	B	0.18	3698	B	0.23	3698	B	0.16	3698	B	0.22	3694
308	B	0.39	6999	B	0.42	7005	B	0.33	7027	B	0.31	7027	B	0.23	7033	B	0.31	7033	B	0.23	7027	B	0.34	7033

2.84 $4_Trig_functions\4.1bCosine\4.1.7(dtrig)^m(a+b(ccos)^n)^p$

Table 86: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.04	42	A	0.07	40	A	0.03	40	A	0.02	40	A	0.01	40	A	0.05	40	A	0.	40	A	0.	40
2	A	0.03	16	A	0.05	16	A	0.02	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16
3	A	0.06	18	A	0.07	18	A	0.04	18	A	0.02	18	A	0.01	18	A	0.01	18	A	0.	18	A	0.02	18

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Table 86 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
4	A 0.05 56	A 0.08 56	A 0.05 56	A 0.03 56	A 0.02 56	A 0.02 56	A 0.01 56	A 0. 56
5	B 0.06 111	B 0.08 111	B 0.06 111	B 0.03 111	B 0.02 111	B 0.02 111	B 0.01 111	B 0.02 111
6	B 0.07 205	B 0.09 205	B 0.06 205	B 0.03 205	B 0.02 205	B 0.02 205	B 0.01 205	B 0.02 205
7	B 0.05 105	B 0.07 105	B 0.04 105	B 0.03 105	B 0.02 105	B 0.02 105	B 0.01 105	B 0.02 105
8	A 0.02 7	A 0.04 7	A 0.02 7	A 0.01 7	A 0. 7	A 0. 7	A 0. 7	A 0.02 7
9	A 0.03 21	A 0.05 21	A 0.02 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
10	A 0.05 51	A 0.07 51	A 0.06 51	A 0.02 51	A 0.01 51	A 0.01 51	A 0. 51	A 0. 51
11	A 0.05 175	A 0.06 163	A 0.05 163	A 0.02 163	A 0.01 163	A 0.01 163	A 0.01 163	A 0. 163
12	A 0. 14	A 0.03 14	A 0. 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
13	B 0.07 246	B 0.08 246	B 0.04 246	B 0.03 246	B 0.06 246	B 0.16 246	B 0.02 246	B 0.03 248
14	B 0.12 3348	B 0.16 3348	B 0.15 3348	B 0.12 3350	B 0.3 1661	B 0.29 1662	B 0.04 1662	C 0.44 101
15	A 0.16 227	A 0.14 227	A 0.14 227	A 0.11 227	A 0.1 227	A 0.11 227	A 0.06 227	A 0.09 227
16	C 0.14 78	C 0.14 78	C 0.12 81	C 0.07 81	C 0.06 81	C 0.08 81	C 0.02 81	C 0.03 81
17	A 0.06 25	A 0.09 25	A 0.04 25	A 0.03 25	A 0.02 25	A 0.02 25	A 0.02 25	A 0.02 25
18	A 0.05 125	A 0.09 125	A 0.05 125	A 0.02 125	A 0.02 125	A 0.01 125	A 0.01 125	A 0. 125
19	A 0.06 44	A 0.14 44	A 0.04 44	A 0.13 44	A 0.08 44	A 0.14 44	A 0.05 44	A 0.08 44
20	A 0.04 24	A 0.07 24	A 0.03 24	A 0.01 24	A 0.02 24	A 0.02 24	A 0.01 24	A 0.02 24

2.85 $4_Trig_functions\backslash 4.1bCosine\backslash 4.1.8(a+bcos)^m(c+dtrig)^n$

Table 87: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.04 117	B 0.06 117	B 0.03 117	B 0.02 117	B 0.01 117	B 0.02 117	B 0.01 117	B 0.02 117
2	B 0.05 110	B 0.07 110	B 0.05 110	B 0.02 110	B 0.02 110	B 0.02 110	B 0.01 110	B 0.03 110
3	B 0.1 288	B 0.12 288	B 0.09 288	B 0.05 288	B 0.03 288	B 0.02 288	B 0.01 288	B 0.02 288
4	B 0.18 1869	B 0.19 1110	B 0.18 1110	B 0.08 1110	B 0.03 1110	B 0.03 1110	B 0.02 1110	B 0.03 1110

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Table 87 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
5	B 0.11 1974	B 0.11 2933	B 0.11 2933	B 0.06 2933	B 0.03 2933	B 0.03 2688	B 0.02 2688	B 0.05 2688

2.86 $4_Trig_functions\4.1bCosine\4.1.9trig^m(a+bcos^n+ccos^{(2n)})^p$

Table 88: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.05 344	B 0.07 344	B 0.04 344	B 0.02 344	B 0.01 344	B 0. 344	B 0.01 344	B 0.02 344
2	B 0.08 546	B 0.1 546	B 0.08 546	B 0.04 546	B 0.03 546	B 0.03 546	B 0.01 546	B 0.02 546
3	B 0.13 2816	B 0.16 2816	B 0.12 2816	B 0.1 2816	B 0.06 2816	B 0.08 2816	B 0.03 2816	B 0.05 2816
4	A 0.04 18	A 0.06 18	A 0.03 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
5	B 0.13 3476	B 0.16 3476	B 0.15 3476	B 0.11 3476	B 0.06 3476	B 0.08 3476	B 0.03 3476	B 0.05 3476

2.87 $4_Trig_functions\4.2aTangent\4.2.0(atrg)^m(btan)^n$

Table 89: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 24	A 0.03 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
2	A 0.01 31	A 0.03 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
3	A 0.01 44	A 0.03 44	A 0. 44	A 0. 44	A 0. 44	A 0. 44	A 0. 44	A 0.02 44
4	A 0. 61	A 0.03 61	A 0. 61	A 0. 61	A 0. 61	A 0. 61	A 0. 61	A 0.02 61
5	A 0.04 176	A 0.05 176	A 0.02 176	A 0.02 176	A 0.01 176	A 0.01 176	A 0.01 176	A 0.02 176
6	A 0.04 37	A 0.06 37	A 0.02 37	A 0.01 37	A 0. 37	A 0. 37	A 0. 37	A 0. 37
7	A 0.02 45	A 0.05 45	A 0.03 47	A 0.02 47	A 0.01 45	A 0.01 45	A 0. 47	A 0. 47

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Table 89 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
8	A 0.02 74	A 0.05 74	A 0.02 74	A 0.02 74	A 0.01 74	A 0.01 74	A 0. 74	A 0. 74
9	A 0.04 209	A 0.05 208	A 0.02 208	A 0.02 209	A 0.01 208	A 0. 208	A 0.01 208	A 0.02 205
10	A 0.04 272	A 0.06 272	A 0.03 269	A 0.02 272	A 0.02 272	A 0.01 272	A 0.01 272	A 0.02 269
11	A 0.04 84	A 0.05 84	A 0.03 84	A 0.02 84	A 0.01 84	A 0. 84	A 0. 84	A 0. 84
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	C 0.25 516	C 0.3 524	C 0.35 2716	C 0.32 2765	C 0.35 2763	C 0.35 2714	C 0.18 2714	C 0.16 2763
15	B 0.24 188	B 0.21 190	B 0.16 539	B 0.13 547	B 0.16 539	B 0.2 539	B 0.09 547	B 0.09 547
16	B 0.26 297	B 0.22 301	B 0.23 783	B 0.18 795	B 0.16 781	B 0.16 781	B 0.1 793	B 0.11 795
17	C 0.32 702	C 0.3 712	C 0.42 6862	C 0.36 6976	C 0.41 6972	C 0.41 6862	C 0.23 6862	C 0.28 6972
18	A 0.26 246	A 0.24 248	B 0.2 577	B 0.18 585	B 0.19 585	B 0.18 585	B 0.11 585	B 0.11 585
19	B 0.25 192	B 0.23 194	B 0.19 546	B 0.17 554	B 0.14 546	B 0.14 546	B 0.1 554	B 0.09 554
20	B 0.27 192	B 0.24 194	B 0.27 551	B 0.2 559	B 0.16 548	B 0.15 548	B 0.11 548	B 0.09 559
21	B 0.22 38	B 0.25 38	B 0.15 38	B 0.12 38	B 0.08 38	B 0.08 38	B 0.06 38	B 0.06 38
22	A 0.34 60	A 0.32 60	A 0.33 60	A 0.26 60	A 0.25 60	A 0.25 60	A 0.15 60	A 0.12 60
23	B 0.4 563	B 0.38 571	B 0.38 1507	B 0.36 1531	B 0.4 1507	B 0.39 1507	B 0.22 1507	B 0.23 1531
24	B 0.32 1455	B 0.32 1479	B 0.29 1455	B 0.23 1479	B 0.22 1479	B 0.21 1479	F 0 0	F 0 0
25	B 0.39 493	B 0.41 493	B 0.3 613	B 0.27 613	B 0.25 613	B 0.24 613	B 0.16 613	B 0.16 613
26	C 0.4 336	C 0.35 336	C 0.27 336	C 0.26 336	C 0.26 336	C 0.26 336	C 0.17 336	C 0.16 336
27	A 0.26 60	A 0.28 60	A 0.16 60	A 0.15 60	A 0.1 60	A 0.11 60	A 0.08 60	A 0.11 60
28	C 0.42 181	C 0.4 181	C 0.33 181	C 0.31 181	C 0.3 181	C 0.29 181	C 0.2 181	C 0.12 181
29	C 0.29 185	C 0.26 185	C 0.18 185	C 0.15 185	C 0.13 185	C 0.13 185	C 0.09 185	C 0.08 185
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 89 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
36	C 0.85 2997	C 0.67 2987	C 0.61 2987	C 0.53 2997	C 0.61 2997	C 0.88 2987	C 0.37 2823	C 0.47 2823
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	A 0.04 172	A 0.06 172	A 0.02 172	A 0.02 172	A 0.01 172	A 0.03 172	A 0.01 172	A 0.02 172
41	C 0.28 650	C 0.26 660	C 0.23 1882	C 0.2 1912	C 0.17 1912	C 0.16 1912	C 0.11 1912	C 0.11 1912
42	C 0.29 718	C 0.28 728	C 0.22 2544	C 0.2 2584	C 0.2 2544	C 0.19 2544	C 0.12 2584	C 0.14 2584
43	A 0.03 157	A 0.06 157	A 0.02 157	A 0.01 157	A 0.01 157	A 0.01 157	A 0.01 157	A 0.02 157
44	A 0.03 175	A 0.06 175	A 0.02 175	A 0.02 175	A 0.01 175	A 0.01 175	A 0.01 175	A 0.02 175
45	C 0.26 718	C 0.25 728	C 0.21 2544	C 0.17 2584	C 0.15 2584	C 0.14 2544	C 0.1 2584	C 0.12 2584
46	A 0.03 166	A 0.05 166	A 0.02 166	A 0.01 166	A 0.01 166	A 0.01 166	A 0.01 166	A 0. 166
47	A 0.03 184	A 0.05 184	A 0.02 184	A 0.01 184	A 0.01 184	A 0.01 184	A 0.01 184	A 0. 184
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	A 0.35 60	A 0.32 60	A 0.28 60	A 0.28 60	A 0.28 60	A 0.28 60	A 0.18 60	A 0.12 60
50	A 0.25 50	A 0.19 50	A 0.14 50	A 0.12 50	A 0.1 50	A 0.1 50	A 0.07 50	A 0.05 50
51	A 0.04 19	A 0.06 19	A 0.02 19	A 0.01 19	B 0.08 38	B 0.08 38	B 0.06 38	B 0.05 38
52	B 0.28 542	B 0.25 550	B 0.2 1486	B 0.18 1510	B 0.16 1486	B 0.16 1486	B 0.12 1510	B 0.12 1510
53	A 0.3 60	A 0.26 60	A 0.21 60	A 0.18 60	A 0.15 60	A 0.15 60	A 0.11 60	A 0.16 60
54	C 0.29 550	C 0.27 558	C 0.21 1934	C 0.2 1966	C 0.18 1934	C 0.18 1934	C 0.13 1934	C 0.14 1966
55	A 0.26 50	A 0.25 50	A 0.18 50	A 0.16 50	A 0.13 50	A 0.12 50	A 0.1 50	A 0.06 50
56	B 0.21 486	B 0.19 494	B 0.15 486	B 0.13 496	B 0.13 486	B 0.13 488	B 0.09 486	B 0.11 496
57	B 0.27 971	B 0.26 987	B 0.21 971	B 0.18 986	B 0.17 987	B 0.16 971	B 0.13 971	B 0.11 987
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	C 0.41 616	C 0.38 600	C 0.32 616	C 0.26 616	C 0.24 616	C 0.25 616	C 0.17 616	C 0.2 614

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Table 89 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
64	C 0.34 588	C 0.35 572	C 0.25 588	C 0.23 588	C 0.2 587	C 0.21 587	C 0.14 587	C 0.12 572
65	A 0.31 62	A 0.26 62	A 0.2 62	A 0.16 62	A 0.16 62	A 0.14 62	A 0.09 62	A 0.09 62
66	C 0.34 779	C 0.29 759	C 0.22 779	C 0.19 779	C 0.15 779	C 0.15 779	C 0.12 779	C 0.16 759
67	A 0.25 50	A 0.21 50	A 0.15 50	A 0.1 50	A 0.11 50	A 0.1 50	A 0.06 50	A 0.06 50
68	A 0.25 50	A 0.21 50	A 0.15 50	A 0.11 50	A 0.07 50	A 0.07 50	A 0.06 50	A 0.06 50
69	C 0.29 360	C 0.31 348	C 0.2 360	C 0.19 360	C 0.14 360	C 0.14 360	C 0.11 348	C 0.09 348
70	A 0.25 60	A 0.22 60	A 0.15 60	A 0.12 60	A 0.11 60	A 0.11 60	A 0.08 60	A 0.08 60
71	C 0.36 586	C 0.35 570	C 0.28 586	C 0.24 586	C 0.2 586	C 0.2 586	C 0.17 586	C 0.14 586
72	A 0.29 72	A 0.27 72	A 0.2 72	A 0.17 72	A 0.15 72	A 0.15 72	A 0.11 72	A 0.09 72
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
76	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
77	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
78	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.88 $4_Trig_functions\4.2aTangent\4.2.10(c+dx)^m(a+btan)^n$

Table 90: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.07 125	A 0.1 125	A 0.04 125	A 0.04 125	A 0.03 125	A 0.03 125	A 0.02 125	A 0.05 125
2	A 0.02 34	A 0.05 34	A 0.02 34	A 0.01 34	A 0.02 34	A 0. 34	A 0.01 34	A 0.02 34
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	A 0.25 159	B 0.12 1031	A 0.21 159	A 0.16 159	A 0.14 159	A 0.12 159	A 0.11 159	A 0.17 159
5	A 0.2 97	B 0.1 489	A 0.19 97	A 0.13 97	A 0.11 97	A 0.11 97	A 0.09 97	A 0.14 97
6	A 0.4 162	B 0.16 938	A 0.33 162	A 0.28 162	A 0.2 162	A 0.22 162	A 0.19 162	A 0.33 162

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Table 90 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
7	A 0.52 175	A 0.11 513	A 0.4 175	A 0.33 175	A 0.27 175	A 0.31 175	A 0.24 175	A 0.62 175
8	A 0.83 385	B 0.2 3344	A 0.8 385	A 0.7 385	A 0.61 385	A 0.59 385	A 0.46 385	A 1.04 385
9	A 0.57 227	B 0.13 1485	A 0.55 227	A 0.48 227	A 0.39 227	A 0.39 227	A 0.32 227	A 0.75 227
10	A 0.6 254	A 0.13 755	A 0.6 254	A 0.54 254	A 0.47 254	A 0.51 254	A 0.39 254	A 1.54 254
11	B 0.1 542	B 0.18 542	B 0.08 542	B 0.08 542	B 0.06 542	B 0.06 542	B 0.05 542	B 0.09 542
12	B 0.44 3488	B 0.49 3488	B 0.38 3488	B 0.3 3488	B 0.25 3187	B 0.28 3488	B 0.2 3488	B 0.36 3488
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.89 $4_Trig_functions\4.2aTangent\4.2.11(ex)^m(a+b\tan(c+dx^n))^p$

Table 91: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	A 0.01 72	A 0.04 72	A 0.01 72	A 0.01 72	A 0. 72	A 0. 72	A 0. 72	A 0.02 72
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 91 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.90 $4_Trig_functions\backslash 4.2aTangent\backslash 4.2.1.2(dsec)^m(a+btan)^n$

Table 92: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.2	69	A	0.23	78	A	0.05	101	A	0.01	101	A	0.02	101	A	0.	101	A	0.	101	A	0.	101
2	A	0.06	26	A	0.1	34	A	0.04	34	A	0.01	34	A	0.	34	A	0.	34	A	0.	34	A	0.	34
3	A	0.07	55	A	0.14	57	A	0.04	57	A	0.01	57	A	0.02	57	A	0.	57	A	0.	57	A	0.	57
4	B	0.08	51	B	0.1	59	B	0.05	59	B	0.01	59	B	0.	59	B	0.	59	B	0.	59	B	0.02	59
5	A	0.09	111	A	0.11	111	A	0.06	143	A	0.02	143	A	0.	143	A	0.	143	A	0.	143	A	0.	143
6	A	0.09	131	A	0.11	131	A	0.06	175	A	0.02	175	A	0.	175	A	0.	175	A	0.	175	A	0.	175
7	B	0.11	220	B	0.12	229	B	0.06	246	B	0.01	246	B	0.	246	B	0.	246	B	0.	246	B	0.02	246
8	A	0.08	87	A	0.11	87	A	0.06	87	A	0.02	87	A	0.02	87	A	0.	87	A	0.	87	A	0.02	87
9	B	0.09	156	B	0.12	156	B	0.06	172	B	0.02	172	B	0.	172	B	0.	172	B	0.	172	B	0.02	172
10	A	0.1	166	A	0.12	166	A	0.07	210	A	0.02	210	A	0.02	210	A	0.	210	A	0.	210	A	0.	210
11	A	0.05	231	A	0.07	231	A	0.03	231	A	0.01	231	A	0.02	231	A	0.	231	A	0.	231	A	0.	231
12	B	0.34	361	B	0.41	361	B	0.08	430	B	0.02	430	B	0.02	430	B	0.	430	B	0.	430	B	0.	430
13	B	0.06	329	B	0.08	329	B	0.03	329	B	0.01	329	B	0.02	329	B	0.	329	B	0.01	329	B	0.02	329
14	B	0.11	170	B	0.12	170	B	0.07	205	B	0.02	205	B	0.	205	B	0.02	205	B	0.	205	B	0.	205
15	B	0.21	317	B	0.25	317	B	0.07	391	B	0.02	391	B	0.	391	B	0.02	391	B	0.	391	B	0.	391
16	B	0.12	406	B	0.14	406	B	0.09	406	B	0.03	406	B	0.02	406	B	0.02	406	B	0.01	406	B	0.02	406
17	B	0.11	319	B	0.13	319	B	0.08	319	B	0.03	319	B	0.02	319	B	0.	319	B	0.01	319	B	0.02	319
18	A	0.1	68	A	0.11	68	A	0.07	68	A	0.01	68	A	0.	68	A	0.02	68	A	0.	68	A	0.	68
19	A	0.09	26	A	0.1	26	A	0.06	26	A	0.02	26	A	0.	26	A	0.	26	A	0.	26	A	0.02	26
20	B	0.04	59	B	0.07	59	B	0.03	59	B	0.03	59	B	0.03	59	B	0.03	59	B	0.02	59	B	0.03	63

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Table 92 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
21	A	0.12	75	A	0.14	75	A	0.08	75	A	0.04	75	A	0.02	75	A	0.03	75	A	0.02	75	A	0.02	81
22	A	0.12	47	A	0.14	47	A	0.08	47	A	0.02	47	A	0.	47	A	0.	47	A	0.	47	A	0.	47
23	A	0.04	79	A	0.07	79	A	0.03	79	A	0.02	79	A	0.02	79	A	0.02	79	A	0.01	79	A	0.02	85
24	A	0.15	157	A	0.16	157	A	0.09	157	A	0.04	157	A	0.03	157	A	0.03	157	A	0.02	157	A	0.03	167
25	B	0.13	170	B	0.17	170	B	0.1	170	B	0.04	170	B	0.03	170	B	0.03	170	B	0.02	170	B	0.02	170
26	A	0.14	89	A	0.15	89	A	0.09	89	A	0.02	89	A	0.02	89	A	0.	89	A	0.	89	A	0.02	89
27	A	0.13	52	A	0.15	52	A	0.1	52	A	0.03	52	A	0.03	52	A	0.02	52	A	0.01	52	A	0.02	54
28	A	0.15	108	A	0.15	108	A	0.11	108	A	0.04	108	A	0.03	108	A	0.03	108	A	0.02	108	A	0.03	110
29	A	0.16	99	A	0.16	99	A	0.1	99	A	0.02	99	A	0.	99	A	0.	99	A	0.01	99	A	0.02	99
30	A	0.14	67	A	0.16	67	A	0.1	67	A	0.02	67	A	0.02	67	A	0.	67	A	0.	67	A	0.	67
31	A	0.14	53	A	0.15	53	A	0.09	53	A	0.03	53	A	0.02	53	A	0.02	53	A	0.01	53	A	0.02	57
32	A	0.16	86	A	0.18	86	A	0.1	86	A	0.04	86	A	0.03	86	A	0.03	86	A	0.02	86	A	0.03	90
33	A	0.16	174	A	0.16	174	A	0.1	174	A	0.04	174	A	0.03	174	A	0.03	174	A	0.02	174	A	0.03	192
34	A	0.21	282	A	0.24	282	A	0.15	282	A	0.05	282	A	0.05	282	A	0.03	282	A	0.03	282	A	0.03	292
35	A	0.31	192	A	0.3	192	B	0.23	482	B	0.2	482	B	0.16	482	B	0.25	482	B	0.14	482	B	0.12	482
36	B	0.28	339	B	0.28	339	B	0.2	339	B	0.19	339	B	0.14	339	B	0.16	339	B	0.13	341	B	0.14	339
37	A	0.3	173	A	0.31	173	A	0.24	173	A	0.21	173	A	0.14	173	A	0.16	173	A	0.13	173	A	0.11	173
38	B	0.24	343	B	0.25	343	B	0.19	343	B	0.18	343	B	0.11	343	B	0.12	343	B	0.11	339	B	0.14	339
39	A	0.3	188	A	0.32	189	A	0.25	188	A	0.21	189	A	0.16	189	A	0.17	188	A	0.15	188	A	0.17	189
40	A	0.4	229	A	0.42	229	B	0.35	519	B	0.3	519	B	0.22	519	B	0.28	519	B	0.2	519	B	0.2	519
41	B	0.35	392	B	0.37	392	B	0.3	1006	B	0.27	1006	B	0.17	1006	B	0.2	1006	B	0.17	1006	B	0.17	1006
42	B	0.31	1086	B	0.32	1089	B	0.25	2668	B	0.22	2668	B	0.16	2668	B	0.17	2668	B	0.15	2668	B	0.16	2668
43	B	0.38	2196	B	0.44	2196	B	0.32	4229	B	0.28	3039	B	0.19	4229	B	0.2	3039	B	0.18	3039	B	0.22	3039
44	B	0.4	370	B	0.43	370	B	0.35	370	B	0.3	370	B	0.22	370	B	0.25	370	B	0.2	370	B	0.26	370
45	B	0.49	380	B	0.54	380	B	0.46	380	B	0.43	380	B	0.31	380	B	0.36	380	B	0.29	380	B	0.39	380
46	B	0.3	361	B	0.34	361	B	0.25	975	B	0.2	975	B	0.16	975	B	0.17	975	B	0.14	975	B	0.14	975
47	A	0.35	174	A	0.4	174	B	0.3	315	B	0.28	315	B	0.22	315	B	0.22	315	B	0.17	315	B	0.12	315
48	B	0.28	916	B	0.33	916	B	0.29	678	B	0.22	678	B	0.17	674	B	0.19	678	B	0.15	678	B	0.12	674

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Table 92 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
49	A	0.28	164	A	0.39	164	B	0.25	855	B	0.21	855	B	0.16	855	B	0.17	855	B	0.14	855	B	0.16	855
50	B	0.81	366	B	0.84	368	B	0.6	2813	B	0.57	2813	B	0.44	2813	B	0.47	2813	B	0.38	2813	B	0.36	2813
51	B	0.45	392	B	0.52	392	B	0.44	1006	B	0.38	1006	B	0.27	1006	B	0.28	1006	B	0.23	1006	B	0.2	1006
52	B	0.62	395	B	0.67	395	B	0.41	3133	B	0.34	3133	B	0.25	3133	B	0.26	3133	B	0.23	3133	B	0.36	3133
53	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
56	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
57	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
58	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
59	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
60	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
61	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
62	A	0.05	24	A	0.07	24	A	0.03	24	A	0.01	24	F	0	0	F	0	0	F	0	0	F	0	0
63	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
64	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
67	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	A	0.05	24	A	0.06	24	A	0.03	24	A	0.01	24	F	0	0	F	0	0	F	0	0	F	0	0
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
74	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 92 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
79	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
80	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
82	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
83	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
84	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
85	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	B	0.39	72	B	0.34	72	B	0.24	72	B	0.2	72	A	0.14	59	A	0.16	59	A	0.14	59	A	0.14	59
88	F	0	0	F	0	0	F	0	0	F	0	0	A	0.17	408	A	0.18	408	A	0.15	408	A	0.16	408
89	A	0.43	97	A	0.41	97	A	0.28	97	A	0.25	97	A	0.16	96	A	0.19	96	A	0.16	96	A	0.19	96
90	A	0.39	85	A	0.37	85	A	0.26	85	A	0.2	85	A	0.14	58	A	0.15	58	A	0.14	58	A	0.19	58
91	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
92	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
93	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
94	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
95	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
96	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
97	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
98	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
99	C	0.61	1620	C	0.55	1620	C	0.42	1620	C	0.39	1620	C	0.31	1620	C	0.36	1620	C	0.26	1545	C	0.36	1539
100	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
101	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
102	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
103	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
104	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 92 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
105	A	0.06	41	A	0.08	41	A	0.04	41	A	0.01	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41
106	A	0.08	110	A	0.11	119	A	0.04	130	A	0.01	130	A	0.02	130	A	0.	130	A	0.	130	A	0.02	130
107	B	0.08	48	B	0.09	56	B	0.04	56	B	0.01	56	B	0.02	56	B	0.	56	B	0.	56	B	0.	56
108	A	0.08	143	A	0.12	145	A	0.04	145	A	0.01	145	A	0.	145	A	0.	145	A	0.	145	A	0.	145
109	A	0.04	98	A	0.06	98	A	0.02	98	A	0.01	98	A	0.	98	A	0.	98	A	0.	98	A	0.02	98
110	A	0.08	108	A	0.11	108	A	0.05	140	A	0.02	140	A	0.	140	A	0.	140	A	0.	140	A	0.	140
111	A	0.11	173	A	0.14	182	A	0.05	193	A	0.01	193	A	0.	193	A	0.	193	A	0.	193	A	0.	193
112	A	0.16	123	A	0.12	123	A	0.06	123	A	0.02	123	A	0.	123	A	0.02	123	A	0.	123	A	0.	123
113	A	0.11	162	A	0.13	162	A	0.06	162	A	0.01	162	A	0.	162	A	0.	162	A	0.01	162	A	0.02	162
114	A	0.1	72	A	0.12	72	A	0.06	72	A	0.02	72	A	0.02	72	A	0.	72	A	0.	72	A	0.02	72
115	B	0.14	524	A	0.15	286	A	0.07	286	A	0.04	286	A	0.03	286	A	0.01	286	A	0.01	286	A	0.	286
116	A	0.15	174	A	0.17	174	A	0.08	174	A	0.02	174	A	0.02	174	A	0.	174	A	0.01	174	A	0.	174
117	A	0.18	320	B	0.2	1339	B	0.12	1339	B	0.07	1339	B	0.05	1339	B	0.06	1339	B	0.04	1339	B	0.05	1339
118	A	0.2	184	A	0.22	184	A	0.11	184	A	0.02	184	A	0.02	184	A	0.02	184	A	0.01	184	A	0.02	184
119	B	0.19	191	B	0.2	450	B	0.09	450	B	0.02	450	B	0.	450	B	0.01	450	B	0.01	450	B	0.02	450
120	C	0.32	2386	C	0.34	2383	C	0.26	3411	C	0.24	3411	C	0.16	3212	C	0.17	3014	C	0.14	3014	C	0.16	3014
121	C	0.4	391	C	0.44	391	C	0.32	391	C	0.27	391	C	0.17	391	C	0.19	391	C	0.17	391	C	0.22	391
122	B	1.71	56695	B	2.04	56695	B	1.29	142823	B	1.24	142823	B	1.25	142823	B	1.3	142823	B	1.15	142806	B	2.26	142823
123	B	1.35	45973	B	1.57	45973	B	1.06	125091	B	0.9	125091	B	0.75	125091	B	0.8	125091	B	0.7	125091	B	1.12	125091
124	B	1.7	80250	B	2.03	80250	B	1.29	192481	B	1.15	192481	B	1.09	192477	B	1.09	192481	B	0.99	192477	B	1.87	192477
125	B	3.85	114399	B	7.03	114407	B	6.14	257018	B	6.14	257018	B	7.79	257010	B	7.7	257018	B	7.91	368972	B	18.39	257018
126	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
127	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
128	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
129	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
130	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
131	B	0.14	374	B	0.16	374	B	0.06	374	B	0.04	374	B	0.03	374	B	0.09	374	B	0.03	374	B	0.05	374
132	B	0.14	289	B	0.16	289	B	0.06	289	B	0.04	289	B	0.03	289	B	0.05	289	B	0.03	289	B	0.05	289

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Table 92 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
133	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
134	A	0.37	46	A	0.34	46	A	0.2	46	A	0.18	46	A	0.11	55	A	0.12	55	A	0.1	55	A	0.11	55
135	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
136	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
137	F	0	0	F	0	0	F	0	0	F	0	0	A	0.12	390	A	0.14	390	A	0.12	390	A	0.14	390
138	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
139	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
140	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.91 $4_Trig_functions\4.2aTangent\4.2.1.3(dsine)^m(a+btan)^n$

Table 93: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.07	66	A	0.1	66	A	0.05	66	A	0.03	66	A	0.02	66	A	0.02	66	A	0.01	66	A	0.02	72
2	B	0.07	81	B	0.14	81	B	0.06	81	B	0.03	81	B	0.01	81	B	0.02	81	B	0.01	81	B	0.02	87
3	A	0.06	15	A	0.1	15	A	0.06	15	A	0.03	15	A	0.02	15	A	0.02	15	A	0.01	15	A	0.02	15
4	A	0.05	58	A	0.07	58	A	0.03	58	A	0.01	58	A	0.	58	A	0.	58	A	0.	58	A	0.02	58
5	A	0.04	45	A	0.07	45	A	0.03	45	A	0.01	45	A	0.	45	A	0.	45	A	0.	45	A	0.02	45
6	A	0.07	42	A	0.08	42	A	0.03	42	A	0.01	42	A	0.	42	A	0.	42	A	0.	42	A	0.02	42
7	A	0.06	75	A	0.09	77	A	0.05	77	A	0.02	77	A	0.02	77	A	0.	77	A	0.	77	A	0.	77
8	A	0.06	108	A	0.08	108	A	0.04	108	A	0.01	108	A	0.	108	A	0.	108	A	0.	108	A	0.	108
9	A	0.11	141	A	0.14	157	A	0.06	157	A	0.02	157	A	0.01	157	A	0.02	157	A	0.	157	A	0.	157
10	A	0.12	230	A	0.14	246	A	0.06	246	A	0.02	246	A	0.02	246	A	0.	246	A	0.	246	A	0.02	246
11	A	0.09	309	A	0.12	309	A	0.05	309	A	0.02	309	A	0.02	309	A	0.	309	A	0.	309	A	0.02	309
12	A	0.12	214	A	0.15	214	A	0.06	214	A	0.02	214	A	0.	214	A	0.02	214	A	0.01	214	A	0.02	214
13	A	0.13	273	A	0.3	273	A	0.1	273	A	0.04	273	A	0.03	273	A	0.02	273	A	0.01	273	A	0.02	273

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Table 93 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
14	A 0.19 96	A 0.21 96	A 0.12 96	A 0.05 96	A 0.02 96	A 0.02 96	A 0.01 96	A 0.02 96
15	A 0.24 410	A 0.26 410	A 0.16 410	A 0.05 410	A 0.02 410	A 0.02 410	A 0.01 410	A 0.03 410
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.92 $4_Trig_functions\4.2aTangent\4.2.2.1(a+btan)^m(c+dtan)^n$

Table 94: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 23	A 0.03 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23	A 0. 23
2	A 0.06 27	A 0.08 27	A 0.03 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
3	A 0.07 55	A 0.09 55	A 0.05 55	A 0.01 55	A 0. 55	A 0.02 55	A 0. 55	A 0.02 55
4	A 0.01 117	A 0.04 117	A 0.01 117	A 0.01 117	A 0.02 117	A 0. 117	A 0.01 117	A 0.02 117
5	A 0.01 51	A 0.04 51	A 0.01 51	A 0.01 51	A 0. 51	A 0.01 51	A 0. 51	A 0. 51
6	A 0.07 47	A 0.1 47	A 0.05 47	A 0.01 47	A 0.02 47	A 0.01 47	A 0. 47	A 0. 47
7	A 0.08 113	A 0.1 113	A 0.06 113	A 0.01 113	A 0. 113	A 0.01 113	A 0. 113	A 0. 113
8	A 0.01 85	A 0.04 85	A 0.01 85	A 0.01 85	A 0.01 85	A 0. 85	A 0. 85	A 0. 85
9	A 0.08 63	A 0.1 63	A 0.06 63	A 0.01 63	A 0. 63	A 0. 63	A 0. 63	A 0. 63
10	A 0.09 80	A 0.11 80	A 0.06 80	A 0.01 80	A 0. 80	A 0. 80	A 0. 80	A 0.02 80
11	A 0.09 98	A 0.11 98	A 0.07 98	A 0.01 98	A 0. 98	A 0. 98	A 0. 98	A 0.02 98
12	A 0.01 101	A 0.03 101	A 0.01 101	A 0.01 101	A 0. 101	A 0. 101	A 0. 101	A 0. 101
13	A 0.09 131	A 0.11 131	A 0.07 131	A 0.01 131	A 0. 131	A 0. 131	A 0. 131	A 0.02 131
14	A 0.05 106	A 0.07 106	A 0.03 106	A 0.03 106	A 0.03 106	A 0.02 106	A 0.04 106	A 0.02 110
15	A 0.04 73	A 0.07 73	A 0.03 73	A 0.03 73	A 0.03 73	A 0.02 73	A 0.01 73	A 0.02 77

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Table 94 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
16	B	0.04	58	B	0.06	58	B	0.03	58	B	0.02	58	B	0.02	58	B	0.02	58	B	0.01	58	B	0.02	62
17	B	0.	59	B	0.03	59	B	0.	59	B	0.	59	B	0.	59	B	0.	59	B	0.01	59	B	0.	63
18	A	0.11	72	A	0.14	72	A	0.08	72	A	0.04	72	A	0.03	72	A	0.02	72	A	0.01	72	A	0.03	76
19	A	0.05	77	A	0.06	77	A	0.03	77	A	0.03	77	A	0.02	77	A	0.02	77	A	0.01	77	A	0.02	83
20	A	0.05	112	A	0.07	112	A	0.03	112	A	0.03	112	A	0.03	112	A	0.03	112	A	0.01	112	A	0.02	120
21	A	0.05	98	A	0.07	98	A	0.03	98	A	0.02	98	A	0.02	98	A	0.02	98	A	0.01	98	A	0.02	106
22	A	0.05	98	A	0.07	98	A	0.03	98	A	0.02	98	A	0.02	98	A	0.02	98	A	0.01	98	A	0.03	106
23	A	0.04	97	A	0.07	97	A	0.03	97	A	0.02	97	A	0.03	97	A	0.02	97	A	0.01	97	A	0.02	105
24	A	0.05	131	A	0.08	131	A	0.03	131	A	0.03	131	A	0.02	131	A	0.03	131	A	0.01	131	A	0.02	141
25	A	0.05	118	A	0.07	118	A	0.03	118	A	0.02	118	A	0.02	118	A	0.02	118	A	0.01	118	A	0.02	128
26	A	0.04	116	A	0.07	116	A	0.03	116	A	0.03	116	A	0.02	116	A	0.03	116	A	0.01	116	A	0.02	126
27	A	0.14	130	A	0.18	130	A	0.1	130	A	0.04	130	A	0.02	130	A	0.03	130	A	0.01	130	A	0.03	140
28	A	0.03	94	A	0.05	94	A	0.02	94	A	0.01	94	A	0.02	94	A	0.02	94	A	0.01	94	A	0.	94
29	A	0.03	58	A	0.05	58	A	0.02	58	A	0.01	58	A	0.02	58	A	0.02	58	A	0.	58	A	0.	58
30	A	0.03	53	A	0.06	53	A	0.02	53	A	0.01	53	A	0.	53	A	0.02	53	A	0.	53	A	0.02	53
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	A	0.03	131	A	0.06	131	A	0.01	131	A	0.01	131	A	0.	131	A	0.	131	A	0.	131	A	0.	131
33	A	0.03	96	A	0.06	96	A	0.01	96	A	0.01	96	A	0.02	96	A	0.	96	A	0.	96	A	0.	96
34	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
35	A	0.03	93	A	0.06	93	A	0.02	93	A	0.02	93	A	0.	93	A	0.02	93	A	0.01	93	A	0.02	93
36	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
37	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
38	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
39	A	0.03	116	A	0.06	116	A	0.02	116	A	0.02	116	A	0.	116	A	0.01	116	A	0.	116	A	0.	116
40	B	0.03	341	B	0.06	341	B	0.02	341	B	0.02	341	B	0.02	341	B	0.02	341	B	0.01	341	B	0.02	341
41	C	0.04	358	C	0.07	358	C	0.03	358	C	0.02	358	C	0.02	358	C	0.02	358	C	0.01	358	C	0.02	358
42	B	0.04	384	B	0.07	384	B	0.02	384	B	0.02	384	B	0.	384	B	0.02	384	B	0.	384	B	0.02	384
43	B	0.04	394	B	0.07	394	B	0.03	394	B	0.02	394	B	0.02	394	B	0.02	394	B	0.	394	B	0.02	394

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
44	B	0.04	414	B	0.07	414	B	0.03	414	B	0.03	414	B	0.03	414	B	0.02	414	B	0.01	414	B	0.	414
45	B	0.05	436	B	0.08	436	B	0.03	436	B	0.03	436	B	0.03	436	B	0.01	436	B	0.01	436	B	0.02	436
46	A	0.1	154	A	0.14	155	A	0.08	155	A	0.08	155	A	0.06	155	A	0.09	155	A	0.03	155	A	0.05	155
47	A	0.08	130	A	0.12	131	A	0.07	131	A	0.08	131	A	0.08	131	A	0.09	131	A	0.02	131	A	0.03	131
48	A	0.09	111	A	0.11	112	A	0.07	112	A	0.07	112	A	0.05	112	A	0.06	112	A	0.02	112	A	0.03	112
49	A	0.08	69	A	0.11	70	A	0.07	70	A	0.07	70	A	0.05	70	A	0.06	70	A	0.02	70	A	0.03	70
50	A	0.1	188	A	0.14	190	A	0.08	190	A	0.08	190	A	0.05	190	A	0.08	190	A	0.02	190	A	0.03	190
51	A	0.09	168	A	0.12	170	A	0.08	170	A	0.07	170	A	0.05	170	A	0.09	170	A	0.01	170	A	0.03	170
52	A	0.09	136	A	0.12	138	A	0.07	138	A	0.07	138	A	0.05	138	A	0.07	138	A	0.02	138	A	0.02	138
53	A	0.1	163	A	0.15	165	A	0.09	165	A	0.08	165	A	0.06	165	A	0.1	165	A	0.02	165	A	0.05	165
54	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
56	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
57	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
58	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
59	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
60	B	0.09	398	B	0.11	401	B	0.07	401	B	0.07	401	B	0.05	398	B	0.05	398	B	0.03	401	B	0.06	398
61	B	0.07	958	B	0.1	963	B	0.06	963	B	0.06	963	B	0.05	958	B	0.05	958	B	0.03	963	B	0.05	958
62	B	0.06	615	B	0.1	620	B	0.05	620	B	0.05	620	B	0.03	615	B	0.04	615	B	0.02	615	B	0.05	615
63	A	0.09	275	A	0.12	275	A	0.07	275	A	0.07	275	A	0.05	275	A	0.07	275	A	0.04	275	A	0.08	283
64	A	0.07	257	A	0.1	257	A	0.05	257	A	0.05	257	A	0.05	257	A	0.05	257	A	0.02	257	A	0.05	265
65	A	0.09	373	A	0.11	328	A	0.07	328	A	0.07	328	A	0.06	328	A	0.06	328	A	0.03	328	A	0.05	338
66	A	0.08	357	A	0.11	319	A	0.07	319	A	0.07	319	A	0.05	319	A	0.06	319	A	0.03	319	A	0.06	329
67	A	0.09	388	A	0.12	351	A	0.07	351	A	0.08	351	A	0.06	351	A	0.07	351	A	0.03	351	A	0.06	361
68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
74	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
79	A	0.03	182	A	0.05	182	A	0.02	182	A	0.01	182	A	0.02	182	A	0.01	182	A	0.	182	A	0.	182
80	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	A	0.03	181	A	0.06	181	A	0.02	181	A	0.02	181	A	0.02	181	A	0.01	181	A	0.	181	A	0.02	181
82	A	0.02	158	A	0.06	158	A	0.02	158	A	0.02	158	A	0.02	158	A	0.01	158	A	0.	158	A	0.	158
83	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
84	A	0.04	198	A	0.06	198	A	0.02	198	A	0.02	198	A	0.02	198	A	0.01	198	A	0.01	198	A	0.	198
85	A	0.03	181	A	0.05	181	A	0.02	181	A	0.02	181	A	0.02	181	A	0.01	181	A	0.	181	A	0.02	181
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
89	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
90	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
91	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
92	B	0.03	337	B	0.08	337	B	0.02	337	B	0.02	337	B	0.02	337	B	0.01	337	B	0.	337	B	0.	337
93	A	0.04	234	A	0.06	234	A	0.02	234	A	0.02	234	A	0.	234	A	0.01	234	A	0.	234	A	0.02	234
94	B	0.05	430	B	0.08	430	B	0.03	430	B	0.02	430	B	0.03	430	B	0.02	430	B	0.	430	B	0.02	430
95	B	0.07	458	B	0.13	458	B	0.05	458	B	0.05	458	B	0.03	458	B	0.03	458	B	0.01	458	B	0.02	458
96	C	1.14	2786	C	0.73	2731	C	0.46	17520	C	0.42	17192	C	0.35	17196	C	0.44	17516	C	0.28	17304	C	0.41	17840
97	C	0.61	11361	C	0.67	11145	C	0.51	23617	C	0.46	23185	C	0.39	23185	C	0.4	23617	C	0.29	23617	C	0.44	23905
98	A	0.08	305	A	0.16	305	A	0.06	305	A	0.08	305	A	0.05	305	A	0.15	305	A	0.07	305	A	0.05	305
99	A	0.05	288	A	0.09	288	A	0.04	288	A	0.05	288	A	0.03	288	A	0.04	288	A	0.01	288	A	0.02	288

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
100	A	0.06	326	A	0.1	326	A	0.06	326	A	0.06	326	A	0.03	326	A	0.05	326	A	0.02	326	A	0.03	326
101	B	0.06	314	B	0.09	314	B	0.05	314	B	0.06	314	B	0.03	314	B	0.05	314	B	0.02	314	B	0.03	314
102	B	0.04	297	B	0.08	297	B	0.05	297	B	0.06	297	B	0.03	297	B	0.05	297	B	0.02	297	B	0.03	297
103	C	0.62	9155	C	0.66	8963	C	0.47	18923	C	0.43	18539	C	0.36	18539	C	0.39	18923	C	0.27	18635	C	0.42	19211
104	C	0.7	13815	C	0.75	13527	C	0.59	23703	C	0.55	23223	C	0.42	23223	C	0.48	23703	C	0.34	23223	C	0.62	24063
105	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
106	A	0.01	57	A	0.04	57	A	0.01	57	A	0.01	57	A	0.	57	A	0.01	57	A	0.	57	A	0.	57
107	A	0.06	63	A	0.08	63	A	0.04	63	A	0.01	63	A	0.	63	A	0.	63	A	0.	63	A	0.02	63
108	A	0.06	93	A	0.08	93	A	0.04	93	A	0.01	93	A	0.	93	A	0.	93	A	0.	93	A	0.	93
109	A	0.01	165	A	0.04	165	A	0.01	165	A	0.01	165	A	0.02	165	A	0.01	165	A	0.	165	A	0.02	165
110	A	0.09	159	A	0.12	159	A	0.07	159	A	0.01	159	A	0.	159	A	0.01	159	A	0.	159	A	0.	159
111	A	0.09	193	A	0.12	193	A	0.06	193	A	0.01	193	A	0.	193	A	0.	193	A	0.	193	A	0.	193
112	A	0.1	180	A	0.14	180	A	0.07	180	A	0.01	180	A	0.02	180	A	0.	180	A	0.	180	A	0.	180
113	A	0.11	267	A	0.13	267	A	0.08	267	A	0.01	267	A	0.02	267	A	0.02	267	A	0.	267	A	0.02	267
114	A	0.03	74	A	0.06	74	A	0.02	74	A	0.02	74	A	0.01	74	A	0.01	74	A	0.	74	A	0.02	74
115	A	0.06	328	A	0.08	328	A	0.04	328	A	0.02	328	A	0.01	328	A	0.02	328	A	0.01	328	A	0.02	328
116	A	0.16	304	A	0.18	304	A	0.1	304	A	0.03	304	A	0.03	304	A	0.03	304	A	0.01	304	A	0.02	304
117	A	0.06	304	A	0.08	304	A	0.03	304	A	0.02	304	A	0.02	304	A	0.02	304	A	0.01	304	A	0.02	304
118	B	0.18	460	B	0.22	460	B	0.12	460	B	0.03	460	B	0.02	460	B	0.02	460	B	0.01	460	B	0.02	460
119	A	0.03	80	A	0.06	80	A	0.02	80	A	0.02	80	A	0.	80	A	0.	80	A	0.	80	A	0.02	80
120	A	0.03	63	A	0.06	63	A	0.02	63	A	0.02	63	A	0.02	63	A	0.	63	A	0.	63	A	0.	63
121	B	0.15	906	B	0.19	899	B	0.14	899	B	0.18	906	B	0.14	899	B	0.16	906	B	0.08	899	B	0.11	906
122	B	0.09	1577	B	0.14	1570	B	0.11	1570	B	0.1	1577	B	0.08	1577	B	0.08	1570	B	0.04	1570	B	0.08	1577
123	B	0.06	1557	B	0.11	1552	B	0.07	1552	B	0.08	1557	B	0.08	1557	B	0.06	1552	B	0.02	1552	B	0.03	1557
124	B	0.1	1836	B	0.18	1832	B	0.14	1832	B	0.11	1836	B	0.09	1836	B	0.09	1836	B	0.05	1836	B	0.09	1832
125	B	0.07	1747	B	0.13	1743	B	0.09	1743	B	0.09	1747	B	0.09	1743	B	0.09	1747	B	0.04	1743	B	0.08	1743
126	C	1.64	39986	C	1.7	39350	C	1.06	64668	C	1.08	64668	C	1.06	64668	C	1.11	65692	C	0.91	64660	C	1.61	64660
127	A	0.02	386	A	0.05	386	A	0.01	386	A	0.02	386	A	0.02	386	A	0.02	386	A	0.01	386	A	0.02	386

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Table 94 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
128	A	0.02	354	A	0.05	354	A	0.01	354	A	0.01	354	A	0.02	354	A	0.02	354	A	0.	354	A	0.	354
129	A	0.02	206	A	0.05	206	A	0.01	206	A	0.01	206	A	0.02	206	A	0.02	206	A	0.	206	A	0.02	206
130	A	0.03	230	A	0.06	230	A	0.02	230	A	0.02	230	A	0.	230	A	0.02	230	A	0.	230	A	0.	230
131	A	0.05	369	A	0.08	369	A	0.04	369	A	0.03	369	A	0.02	369	A	0.02	369	A	0.01	369	A	0.02	369
132	A	0.05	317	A	0.08	317	A	0.03	317	A	0.03	317	A	0.02	317	A	0.02	317	A	0.01	317	A	0.	317
133	B	0.06	551	A	0.09	510	A	0.03	510	A	0.03	510	A	0.02	510	A	0.02	510	A	0.01	510	A	0.	510
134	B	0.05	559	A	0.08	522	A	0.04	522	A	0.04	522	A	0.02	522	A	0.02	522	A	0.01	522	A	0.02	522
135	A	0.07	595	A	0.1	596	A	0.04	596	A	0.04	596	A	0.02	596	A	0.03	596	A	0.01	596	A	0.02	596
136	B	0.08	920	B	0.1	968	B	0.04	968	B	0.04	968	B	0.02	968	B	0.01	968	B	0.01	968	B	0.02	968
137	B	0.06	903	B	0.09	823	B	0.04	823	B	0.04	823	B	0.02	823	B	0.02	823	B	0.01	823	B	0.02	823
138	B	0.77	578805	B	0.86	578805	B	0.52	578231	B	0.57	578229	B	0.47	578229	B	0.59	578231	B	0.42	580373	B	0.7	57822
139	B	0.46	1236515	B	0.5	1236515	B	0.4	1235291	B	0.4	1235291	B	0.4	1235291	B	0.55	1235291	B	0.33	1239847	B	0.69	123529
140	B	0.61	1490754	B	0.79	1490754	B	0.56	1489280	B	0.62	1489278	B	0.53	1489278	B	0.66	1489280	B	0.44	1494772	B	0.89	148928
141	B	0.59	1091131	B	0.75	1091131	B	0.53	1090051	B	0.56	1090051	B	0.5	1090051	B	0.67	1090051	B	0.48	1092061	B	0.81	109005
142	B	1.02	944089	B	1.31	944091	B	0.95	943153	B	1.07	943153	B	0.87	943153	B	1.13	943155	B	0.83	946637	B	1.53	94315
143	B	1.42	1712043	B	1.63	1712043	B	1.4	1710351	B	1.47	1710351	B	1.32	1710351	B	1.78	1710351	B	1.27	1713500	B	2.4	171035
144	B	1.26	1707122	B	1.34	1707122	B	1.17	1705430	B	1.22	1705430	B	1.11	1705430	B	1.53	1705430	B	1.06	1708579	B	1.95	170543
145	B	0.22	474	B	0.26	474	B	0.19	474	B	0.19	474	B	0.17	474	B	0.17	474	B	0.12	474	B	0.22	474
146	B	0.14	474	B	0.18	474	B	0.12	474	B	0.11	474	B	0.1	474	B	0.09	474	B	0.07	474	B	0.12	474
147	B	0.23	474	B	0.25	474	B	0.19	474	B	0.2	474	B	0.18	474	B	0.18	474	B	0.12	474	B	0.22	474
148	B	0.14	473	B	0.16	473	B	0.11	473	B	0.12	473	B	0.09	473	B	0.08	474	B	0.07	474	B	0.12	474
149	B	0.13	428	B	0.16	428	B	0.11	428	B	0.17	428	B	0.09	428	B	0.11	428	B	0.07	428	B	0.12	428
150	A	0.08	558	A	0.13	558	A	0.08	558	A	0.09	558	A	0.07	558	A	0.08	558	A	0.04	558	A	0.06	560
151	C	0.09	131	C	0.08	131	C	0.04	133	C	0.04	133	C	0.03	133	C	0.03	133	C	0.01	133	C	0.02	133
152	C	0.05	81	C	0.07	81	C	0.02	83	C	0.02	83	C	0.03	83	C	0.03	83	C	0.01	83	C	0.	83
153	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
154	C	0.06	96	C	0.07	96	C	0.03	98	C	0.03	98	C	0.02	98	C	0.02	98	C	0.01	98	C	0.02	98
155	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
156	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
157	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
158	C	0.36	724	C	0.36	736	C	0.28	724	C	0.24	736	C	0.16	736	C	0.2	724	C	0.16	736	C	0.16	736
159	C	0.35	420	C	0.36	428	C	0.27	1514	C	0.21	1538	C	0.16	1536	C	0.16	1512	C	0.13	1536	C	0.14	1536
160	C	0.5	1834	C	0.52	1866	C	0.41	5995	C	0.41	6101	C	0.28	6095	C	0.32	5995	C	0.23	6095	C	0.25	6095
161	C	0.37	1868	C	0.38	1898	C	0.28	6051	C	0.23	6155	C	0.18	6151	C	0.17	6055	C	0.14	6151	C	0.17	6151
162	C	0.55	768	C	0.47	778	C	0.39	7306	C	0.33	7426	C	0.22	7426	C	0.23	7306	C	0.18	7426	C	0.3	7426
163	C	0.51	2496	C	0.51	2535	C	0.34	7298	C	0.24	7418	C	0.16	7418	C	0.18	7294	C	0.14	7418	C	0.19	7418
164	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
165	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
166	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
167	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
168	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
169	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
170	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
171	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
172	C	0.32	4249	C	0.31	4321	C	0.25	4249	C	0.19	4321	C	0.15	4321	C	0.17	4249	C	0.14	4321	C	0.16	4321
173	C	0.36	3456	C	0.35	3512	C	0.25	3456	C	0.21	3512	C	0.15	3512	C	0.14	3456	C	0.12	3512	C	0.16	3512
174	C	0.41	1733	C	0.42	1759	C	0.3	6662	C	0.25	6766	C	0.2	6766	C	0.19	6662	C	0.16	6766	C	0.2	6766
175	C	0.48	2370	C	0.53	2406	C	0.34	9230	C	0.28	9374	C	0.22	9374	C	0.2	9230	C	0.16	9374	C	0.22	9374
176	C	0.45	2238	C	0.45	2278	C	0.3	9264	C	0.24	9421	C	0.16	9421	C	0.16	9264	C	0.13	9421	C	0.16	9421
177	C	1.2	18083	C	1.24	18333	C	0.7	70943	C	0.58	71983	C	0.52	71983	C	0.53	70943	C	0.44	71966	C	0.81	71966
178	C	0.71	19878	C	0.69	20172	C	0.57	66608	C	0.48	67588	C	0.43	67588	C	0.44	66608	C	0.36	67571	C	0.64	67571
179	C	1.85	50044	C	2.44	50759	C	2.09	153314	C	2.06	155498	C	2.37	155482	C	2.25	153298	C	2.1	155499	C	4.6	15548
180	C	1.61	49963	C	1.89	50672	C	1.74	153022	C	1.7	155206	C	1.9	155206	C	1.78	153039	C	1.62	155206	C	3.54	15521
181	C	1.73	50054	C	1.98	50764	C	1.81	152680	C	1.79	154856	C	1.99	154856	C	1.87	152705	C	1.68	154848	C	3.59	15484
182	C	0.54	5190	C	0.5	5264	C	0.34	5181	C	0.31	5264	C	0.24	5264	C	0.25	5181	C	0.19	5181	C	0.31	5264
183	C	0.88	33802	C	0.88	34250	C	0.64	33758	C	0.66	34250	C	0.57	34250	C	0.59	33758	C	0.49	34206	C	0.78	34250

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Table 94 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
184	C	0.69	32953	C	0.66	33401	C	0.46	32909	C	0.45	33401	C	0.41	33401	C	0.4	32909	C	0.34	32909	C	0.58	32953
185	C	0.55	8435	C	0.5	8547	C	0.36	8425	C	0.36	8547	C	0.28	8547	C	0.3	8425	C	0.23	8537	C	0.36	8435
186	C	0.59	6062	C	0.54	6142	C	0.4	6051	C	0.38	6145	C	0.31	6142	C	0.31	6051	C	0.24	6051	C	0.28	6141
187	C	0.65	11486	C	0.62	11634	C	0.46	11480	C	0.47	11634	C	0.38	11634	C	0.41	11480	C	0.34	11480	C	0.53	11635
188	C	0.53	4837	C	0.47	4898	C	0.34	4845	C	0.35	4914	C	0.26	4914	C	0.28	4845	C	0.22	4845	C	0.36	4851
189	C	0.49	4837	C	0.44	4900	C	0.31	4832	C	0.32	4901	C	0.23	4900	C	0.24	4829	C	0.19	4894	C	0.27	4838
190	C	0.76	15857	C	0.77	16061	C	0.65	15849	C	0.63	16062	C	0.55	16061	C	0.55	15849	C	0.46	15849	C	0.78	16062
191	C	1.14	41237	C	1.1	41789	C	0.92	41183	C	0.97	41789	C	0.84	41789	C	0.92	41191	C	0.84	41191	C	1.33	41789
192	C	0.79	20669	C	0.78	20945	C	0.64	20687	C	0.67	20990	C	0.56	20998	C	0.59	20687	C	0.56	20971	C	0.94	20714
193	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
194	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
195	A	0.04	20	A	0.07	20	A	0.03	20	A	0.02	20	A	0.02	20	A	0.02	20	A	0.01	20	A	0.02	23
196	A	0.05	39	A	0.08	39	A	0.03	39	A	0.02	39	A	0.03	39	A	0.02	39	A	0.01	39	A	0.02	43
197	A	0.01	81	A	0.04	81	A	0.01	81	A	0.01	81	A	0.02	81	A	0.	81	A	0.	81	A	0.	81
198	A	0.06	52	A	0.08	52	A	0.04	52	A	0.03	52	A	0.02	52	A	0.02	52	A	0.01	52	A	0.02	58
199	A	0.05	66	A	0.09	66	A	0.03	66	A	0.03	66	A	0.02	66	A	0.02	66	A	0.01	66	A	0.02	74
200	A	0.08	135	A	0.1	135	A	0.05	135	A	0.04	135	A	0.02	135	A	0.03	135	A	0.01	135	A	0.03	143
201	A	0.08	128	A	0.09	128	A	0.04	128	A	0.03	128	A	0.03	128	A	0.02	128	A	0.01	128	A	0.02	128
202	A	0.06	91	A	0.09	91	A	0.03	91	A	0.03	91	A	0.02	91	A	0.03	91	A	0.01	91	A	0.02	91
203	A	0.05	39	A	0.08	39	A	0.03	39	A	0.03	39	A	0.03	39	A	0.02	39	A	0.01	39	A	0.02	39
204	C	0.07	180	C	0.09	180	C	0.04	180	C	0.04	180	C	0.01	180	C	0.01	180	C	0.01	180	C	0.03	188
205	A	0.05	66	A	0.08	66	A	0.03	66	A	0.03	66	A	0.02	66	A	0.02	66	A	0.01	66	A	0.02	66
206	A	0.05	53	A	0.08	53	A	0.03	53	A	0.03	53	A	0.02	53	A	0.02	53	A	0.01	53	A	0.02	53
207	A	0.08	66	A	0.08	66	A	0.04	66	A	0.02	66	A	0.02	66	A	0.02	66	A	0.01	66	A	0.02	66
208	A	0.06	98	A	0.08	191	A	0.04	191	A	0.05	191	A	0.01	191	A	0.02	191	A	0.01	191	A	0.02	191
209	A	0.04	66	A	0.07	66	A	0.04	66	A	0.03	66	A	0.01	66	A	0.02	66	A	0.01	66	A	0.	66
210	A	0.03	47	A	0.06	47	A	0.03	47	A	0.01	47	A	0.01	47	A	0.02	47	A	0.01	47	A	0.02	47
211	A	0.06	122	A	0.08	122	A	0.05	122	A	0.04	122	A	0.02	122	A	0.02	122	A	0.02	122	A	0.03	122

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Table 94 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
212	A	0.09	74	A	0.12	74	A	0.08	74	A	0.08	74	A	0.05	74	A	0.05	74	A	0.04	74	A	0.08	74
213	A	0.05	122	A	0.08	122	A	0.05	122	A	0.04	122	A	0.01	122	A	0.02	122	A	0.02	122	A	0.03	122
214	A	0.06	97	A	0.09	97	A	0.06	97	A	0.06	97	A	0.03	97	A	0.01	97	A	0.02	97	A	0.03	97
215	A	0.05	186	A	0.07	186	A	0.05	186	A	0.04	186	A	0.02	186	A	0.02	186	A	0.02	186	A	0.03	186
216	B	0.06	75	B	0.09	75	B	0.06	75	B	0.06	75	B	0.03	75	B	0.03	75	B	0.03	75	B	0.03	75
217	A	0.07	110	A	0.1	110	A	0.07	110	A	0.07	110	A	0.05	110	A	0.05	110	A	0.03	110	A	0.06	110
218	B	0.07	82	B	0.1	82	B	0.07	82	B	0.06	82	B	0.03	82	B	0.03	82	B	0.03	82	B	0.03	82
219	A	0.06	109	A	0.1	109	A	0.07	109	A	0.06	109	A	0.03	109	A	0.03	109	A	0.02	109	A	0.03	109
220	A	0.06	70	A	0.09	70	A	0.06	70	A	0.06	70	A	0.03	70	A	0.03	70	A	0.03	70	A	0.05	70
221	A	0.07	141	A	0.1	141	A	0.07	141	A	0.06	141	A	0.05	141	A	0.05	141	A	0.03	141	A	0.06	141
222	A	0.08	118	A	0.1	118	A	0.07	118	A	0.07	118	A	0.03	118	A	0.05	118	A	0.03	118	A	0.05	118
223	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
224	B	0.01	156	B	0.04	156	B	0.01	156	B	0.01	156	B	0.02	156	B	0.	156	B	0.01	156	B	0.02	156
225	B	0.02	360	B	0.04	360	B	0.01	360	B	0.01	360	B	0.02	360	B	0.02	360	B	0.01	360	B	0.02	360
226	B	0.02	256	B	0.04	256	B	0.01	256	B	0.01	256	B	0.	256	B	0.01	256	B	0.	256	B	0.02	256
227	A	0.08	155	A	0.11	155	A	0.05	155	A	0.05	155	A	0.03	155	A	0.03	155	A	0.02	155	A	0.03	162
228	B	0.14	954	A	0.15	577	A	0.09	577	A	0.07	577	A	0.05	577	A	0.05	577	A	0.02	577	A	0.05	597
229	B	0.15	1315	B	0.15	1064	B	0.09	1064	B	0.09	1064	B	0.06	1064	B	0.08	1064	B	0.04	1064	B	0.08	1064
230	B	0.1	257	B	0.12	499	B	0.08	499	B	0.08	499	B	0.06	499	B	0.08	499	B	0.02	499	B	0.03	499
231	B	0.11	861	B	0.14	975	B	0.08	975	B	0.08	975	B	0.06	975	B	0.08	975	B	0.02	975	B	0.03	975
232	B	0.11	1728	B	0.15	1748	B	0.1	1728	B	0.1	1748	B	0.08	1748	B	0.08	1748	B	0.03	1728	B	0.08	1728
233	B	0.05	1618	B	0.1	1641	B	0.04	1618	B	0.05	1641	B	0.06	1641	B	0.06	1618	B	0.02	1618	B	0.05	1641
234	B	0.11	502	A	0.13	343	A	0.08	343	A	0.08	343	A	0.06	343	A	0.08	343	A	0.02	343	A	0.03	343
235	B	0.12	1105	B	0.14	546	B	0.08	546	B	0.09	546	B	0.05	546	B	0.06	546	B	0.02	546	B	0.03	546
236	B	0.08	2528	B	0.13	2534	B	0.08	2528	B	0.09	2534	B	0.06	2534	B	0.08	2534	B	0.03	2534	B	0.05	2528
237	B	0.14	943	B	0.16	1174	B	0.11	1174	B	0.12	1174	B	0.08	1174	B	0.14	1174	B	0.04	1174	B	0.06	1174
238	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
239	B	0.13	1275	B	0.15	1275	B	0.11	1275	B	0.1	1275	B	0.08	1275	B	0.08	1275	B	0.06	1275	B	0.09	1275

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Table 94 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
240	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
241	B	0.08	2647	B	0.11	2647	B	0.07	2647	B	0.08	2647	B	0.05	2647	B	0.05	2647	B	0.04	2647	B	0.05	2647
242	B	0.12	2946	B	0.14	2946	B	0.1	2946	B	0.1	2946	B	0.06	2946	B	0.08	2946	B	0.06	2946	B	0.08	2946
243	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
244	B	0.18	10145	B	0.21	10145	B	0.16	10145	B	0.15	10145	B	0.16	10145	B	0.17	10145	B	0.14	10145	B	0.23	10145
245	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
246	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
247	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
248	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
249	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
250	A	0.01	77	A	0.04	77	A	0.01	77	A	0.01	77	A	0.	77	A	0.	77	A	0.	77	A	0.02	77
251	B	0.06	483	B	0.08	483	B	0.03	483	B	0.02	483	B	0.02	483	B	0.02	483	B	0.01	483	B	0.02	483
252	B	0.05	364	B	0.08	364	B	0.04	364	B	0.02	364	B	0.03	364	B	0.02	364	B	0.01	364	B	0.02	364
253	B	0.13	1080	B	0.14	1080	B	0.07	1080	B	0.05	1080	B	0.03	1080	B	0.03	1080	B	0.02	1080	B	0.03	1080
254	B	0.07	1063	B	0.09	1063	B	0.04	1063	B	0.03	1063	B	0.02	1063	B	0.03	1063	B	0.01	1063	B	0.02	1063
255	B	0.14	2073	B	0.19	2073	B	0.13	2073	B	0.15	2073	B	0.12	2073	B	0.13	2060	B	0.07	2060	B	0.09	2073
256	B	0.13	3518	B	0.19	3518	B	0.13	3518	B	0.14	3518	B	0.11	3518	B	0.12	3498	B	0.06	3498	B	0.09	3518
257	B	0.13	1964	B	0.18	1964	B	0.12	1964	B	0.14	1964	B	0.09	1964	B	0.11	1964	B	0.06	1964	B	0.11	1954
258	B	0.16	4601	B	0.23	4766	B	0.16	4766	B	0.16	4766	B	0.11	4766	B	0.12	4766	B	0.07	4766	B	0.11	4742
259	B	0.09	3976	B	0.15	3976	B	0.1	3976	B	0.1	3976	B	0.08	3976	B	0.08	3969	B	0.04	3969	B	0.05	3969
260	B	0.16	12836	B	0.22	12836	B	0.17	12836	B	0.17	12836	B	0.14	12823	B	0.16	12836	B	0.08	12836	B	0.14	12823
261	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
262	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
263	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
264	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
265	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
266	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
267	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 94 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
268	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
269	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.93 $4_Trig_functions\4.2aTangent\4.2.3.1(a+btan)^m(c+dtan)^n(A+Btan)$

Table 95: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0	
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
1	A	0.01	141	A	0.04	141	A	0.01	141	A	0.01	141	A	0.02	141	A	0.02	141	A	0.01	141	A	0.
2	A	0.08	71	A	0.1	71	A	0.05	71	A	0.01	71	A	0.	71	A	0.02	71	A	0.	71	A	0.
3	A	0.1	100	A	0.13	100	A	0.06	100	A	0.01	100	A	0.01	100	A	0.	100	A	0.	100	A	0.
4	A	0.12	136	A	0.16	136	A	0.09	136	A	0.01	136	A	0.02	136	A	0.02	136	A	0.01	136	A	0.
5	A	0.13	224	A	0.16	224	A	0.09	224	A	0.01	224	A	0.01	224	A	0.02	224	A	0.01	224	A	0.02
6	A	0.13	259	A	0.17	259	A	0.1	259	A	0.01	259	A	0.02	259	A	0.02	259	A	0.	259	A	0.
7	A	0.05	169	A	0.08	169	A	0.04	169	A	0.03	169	A	0.03	169	A	0.02	169	A	0.01	169	A	0.03
8	A	0.15	170	A	0.17	170	A	0.12	170	A	0.05	170	A	0.03	170	A	0.03	170	A	0.02	170	A	0.03
9	A	0.16	241	A	0.19	241	A	0.12	241	A	0.04	241	A	0.05	241	A	0.03	241	A	0.02	241	A	0.03
10	A	0.06	219	A	0.09	219	A	0.04	219	A	0.04	219	A	0.03	219	A	0.03	219	A	0.01	219	A	0.03
11	A	0.06	203	A	0.09	203	A	0.04	203	A	0.03	203	A	0.01	203	A	0.03	203	A	0.01	203	A	0.03
12	A	0.04	82	A	0.06	82	A	0.02	82	A	0.02	82	A	0.	82	A	0.02	82	A	0.	82	A	0.02
13	A	0.03	63	A	0.06	63	A	0.02	63	A	0.01	63	A	0.	63	A	0.	63	A	0.	63	A	0.02
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
15	A	0.03	123	A	0.06	123	A	0.02	123	A	0.02	123	A	0.02	123	A	0.	123	A	0.	123	A	0.
16	A	0.04	206	A	0.07	206	A	0.02	206	A	0.02	206	A	0.02	206	A	0.	206	A	0.01	206	A	0.02
17	A	0.03	141	A	0.06	141	A	0.02	141	A	0.01	141	A	0.	141	A	0.02	141	A	0.	141	A	0.
18	A	0.04	96	A	0.06	96	A	0.02	96	A	0.02	96	A	0.02	96	A	0.02	96	A	0.01	96	A	0.02
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size		
20	A	0.05	181	A	0.08	181	A	0.03	181	A	0.03	181	A	0.02	181	A	0.02	181	A	0.01	181	A	0.02
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
22	B	0.02	444	B	0.05	444	B	0.02	444	B	0.02	444	B	0.	444	B	0.01	444	B	0.01	444	B	0.02
23	B	0.03	607	B	0.06	607	B	0.02	607	B	0.02	607	B	0.02	607	B	0.02	607	B	0.01	607	B	0.02
24	B	0.03	537	B	0.05	537	B	0.02	537	B	0.02	537	B	0.02	537	B	0.02	537	B	0.01	537	B	0.02
25	B	0.03	504	B	0.06	504	B	0.02	504	B	0.02	504	B	0.02	504	B	0.02	504	B	0.01	504	B	0.02
26	B	0.03	521	B	0.06	521	B	0.02	521	B	0.02	521	B	0.02	521	B	0.02	521	B	0.01	521	B	0.
27	A	0.09	290	A	0.12	290	A	0.06	290	A	0.06	290	A	0.05	290	A	0.05	290	A	0.03	290	A	0.06
28	A	0.08	294	A	0.11	294	A	0.05	294	A	0.06	294	A	0.03	294	A	0.03	294	A	0.02	294	A	0.03
29	A	0.09	323	A	0.11	351	A	0.06	351	A	0.06	351	A	0.04	351	A	0.03	351	A	0.02	351	A	0.03
30	A	0.08	278	A	0.12	306	A	0.06	306	A	0.05	306	A	0.05	306	A	0.03	306	A	0.02	306	A	0.03
31	A	0.1	368	A	0.12	368	A	0.08	368	A	0.07	368	A	0.05	368	A	0.05	368	A	0.02	368	A	0.02
32	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
33	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
34	B	0.07	860	B	0.1	868	B	0.05	868	B	0.05	868	B	0.03	860	B	0.03	860	B	0.03	860	B	0.03
35	B	0.07	1086	B	0.1	1096	B	0.05	1096	B	0.05	1096	B	0.05	1086	B	0.03	1086	B	0.03	1086	B	0.03
36	A	0.03	297	A	0.06	297	A	0.01	297	A	0.01	297	A	0.	297	A	0.02	297	A	0.01	297	A	0.
37	A	0.04	367	A	0.06	367	A	0.02	367	A	0.02	367	A	0.01	367	A	0.	367	A	0.01	367	A	0.02
38	A	0.03	321	A	0.06	321	A	0.02	321	A	0.02	321	A	0.01	321	A	0.01	321	A	0.01	321	A	0.
39	A	0.03	318	A	0.06	318	A	0.02	318	A	0.02	318	A	0.02	318	A	0.02	318	A	0.01	318	A	0.02
40	A	0.03	318	A	0.06	318	A	0.02	318	A	0.02	318	A	0.02	318	A	0.02	318	A	0.01	318	A	0.
41	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
43	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
45	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
48	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
49	A	0.02	199	A	0.04	199	A	0.01	199	A	0.01	199	A	0.02	199	A	0.02	199	A	0.01	199
50	A	0.13	141	A	0.14	141	A	0.07	141	A	0.01	141	A	0.	141	A	0.02	141	A	0.	141
51	A	0.14	186	A	0.16	186	A	0.09	186	A	0.01	186	A	0.	186	A	0.	186	A	0.01	186
52	B	0.04	153	B	0.07	153	B	0.03	153	B	0.02	153	B	0.02	153	B	0.	153	B	0.01	153
53	B	0.15	174	B	0.17	174	B	0.09	174	B	0.04	174	B	0.02	174	B	0.02	174	B	0.01	174
54	B	0.06	305	B	0.08	305	B	0.03	305	B	0.02	305	B	0.02	305	B	0.02	305	B	0.01	305
55	A	0.2	457	A	0.21	457	A	0.11	457	A	0.04	457	A	0.02	457	A	0.03	457	A	0.02	457
56	B	0.07	566	B	0.09	566	B	0.04	566	B	0.03	566	B	0.02	566	B	0.02	566	B	0.01	566
57	B	0.06	488	B	0.08	488	B	0.03	488	B	0.02	488	B	0.02	488	B	0.02	488	B	0.01	488
58	B	0.08	780	B	0.1	780	B	0.04	780	B	0.03	780	B	0.03	780	B	0.03	780	B	0.01	780
59	A	0.06	22	A	0.08	22	A	0.04	22	A	0.02	22	A	0.	22	A	0.	22	A	0.	22
60	A	0.05	115	A	0.08	115	A	0.03	115	A	0.02	115	A	0.02	115	A	0.	115	A	0.01	115
61	A	0.04	78	A	0.07	78	A	0.02	78	A	0.02	78	A	0.02	78	A	0.	78	A	0.01	78
62	B	0.04	142	B	0.08	142	B	0.03	142	B	0.02	142	B	0.	142	B	0.	142	B	0.01	142
63	B	0.09	968	B	0.13	961	B	0.08	961	B	0.1	968	B	0.06	968	B	0.06	968	B	0.04	961
64	C	1.4	29505	C	1.24	29038	C	0.96	174530	C	0.96	174528	C	0.99	174530	C	1.03	177266	C	0.89	174530
65	B	0.11	1665	B	0.15	1657	B	0.11	1657	B	0.11	1665	B	0.1	1665	B	0.11	1665	B	0.05	1665
66	B	0.12	2469	B	0.17	2455	B	0.12	2455	B	0.12	2469	B	0.11	2469	B	0.11	2469	B	0.06	2469
67	B	0.12	2426	B	0.16	2410	B	0.12	2410	B	0.12	2426	B	0.11	2426	B	0.11	2426	B	0.06	2426
68	B	0.09	2405	B	0.14	2391	B	0.1	2391	B	0.1	2405	B	0.09	2405	B	0.09	2405	B	0.04	2391
69	C	3.46	56442	C	3.83	55566	C	2.85	321552	C	3.18	321552	C	3.83	321552	C	3.76	326556	C	3.46	321552
70	C	2.92	90067	C	3.23	88645	C	2.84	380657	C	3.05	380657	C	3.92	380657	C	3.64	386621	C	3.55	380657
71	C	2.46	130261	C	3.07	128221	C	3.61	447843	C	3.89	447843	C	4.79	447843	C	4.75	454851	C	5.	447843
72	C	3.58	230762	C	5.5	227162	C	7.09	595648	C	7.58	595648	C	9.78	595648	C	9.73	604948	C	8.87	595648
73	B	0.09	2285	B	0.14	2274	B	0.09	2274	B	0.09	2285	B	0.08	2285	B	0.08	2285	B	0.04	2274
74	B	0.1	4107	B	0.14	4100	B	0.1	4100	B	0.1	4107	B	0.08	4107	B	0.09	4107	B	0.04	4100
75	B	0.1	4040	B	0.14	4031	B	0.09	4031	B	0.1	4040	B	0.08	4040	B	0.08	4040	B	0.04	4031

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
76	C	1.76	70697	C	1.89	69579	C	1.71	275051	C	1.75	275047	C	2.06	275047	C	2.1	279377	C	1.95	275047	C	3.96
77	B	0.13	7956	B	0.18	7943	B	0.14	7943	B	0.15	7956	B	0.13	7956	B	0.12	7956	B	0.08	7956	B	0.12
78	C	8.56	344767	C	12.19	339349	C	7.35	534773	C	8.34	534756	C	11.44	534756	C	11.71	543215	C	10.49	534756	C	26.86
79	C	1.43	39987	C	1.4	39351	C	0.81	64669	C	0.82	64669	C	0.84	64669	C	0.88	65693	C	0.71	64661	C	1.19
80	B	0.08	1624	B	0.11	1601	B	0.07	1601	B	0.08	1624	B	0.05	1624	B	0.08	1624	B	0.02	1601	B	0.05
81	B	0.08	54	B	0.1	54	B	0.06	54	B	0.06	54	B	0.03	54	B	0.05	54	B	0.02	54	B	0.03
82	B	0.02	710	B	0.05	710	B	0.02	710	B	0.02	710	B	0.02	710	B	0.02	710	B	0.01	710	B	0.
83	B	0.03	710	B	0.06	710	B	0.02	710	B	0.02	710	B	0.01	710	B	0.02	710	B	0.01	710	B	0.02
84	B	0.03	1147	B	0.05	1147	B	0.02	1147	B	0.02	1147	B	0.02	1147	B	0.	1147	B	0.01	1147	B	0.02
85	B	0.06	607	B	0.09	607	B	0.04	607	B	0.04	607	B	0.02	607	B	0.01	607	B	0.01	607	B	0.02
86	B	0.07	1160	B	0.1	1168	B	0.04	1168	B	0.04	1168	B	0.03	1168	B	0.02	1168	B	0.01	1168	B	0.02
87	B	0.08	1843	B	0.11	1881	B	0.05	1881	B	0.05	1881	B	0.02	1881	B	0.03	1881	B	0.01	1881	B	0.02
88	B	0.09	1864	B	0.11	1831	B	0.05	1831	B	0.06	1831	B	0.03	1831	B	0.03	1831	B	0.02	1831	B	0.03
89	A	0.03	104	A	0.06	104	A	0.02	104	A	0.02	104	A	0.	104	A	0.02	104	A	0.	104	A	0.
90	B	0.94	2472055	B	1.09	2469607	B	0.86	2469607	B	0.95	2478719	B	0.87	2469607	B	1.04	2469607	B	0.84	2478719	B	1.37
91	B	0.81	2476714	B	0.88	2474266	B	0.71	2474266	B	0.77	2483378	B	0.74	2474266	B	0.9	2474266	B	0.68	2483378	B	1.2
92	B	0.96	2689239	B	1.09	2686575	B	0.89	2686575	B	0.94	2696491	B	0.84	2686575	B	1.08	2686575	B	0.84	2696491	B	1.39
93	B	0.91	2687901	B	1.01	2685245	B	0.83	2685237	B	0.89	2695161	B	0.77	2685245	B	1.	2685245	B	0.72	2695153	B	1.28
94	B	0.87	2692127	B	0.96	2689463	B	0.76	2689463	B	0.84	2699379	B	0.75	2689463	B	1.03	2689463	B	0.7	2699379	B	1.25
95	B	1.02	2987452	B	1.16	2984500	B	0.93	2984500	B	1.03	2995488	B	0.98	2989994	B	1.21	2984500	B	0.99	2995488	B	1.51
96	B	1.02	2178639	B	1.17	2176471	B	0.98	2176471	B	1.06	2184519	B	0.97	2184519	B	1.22	2176479	B	0.94	2184511	B	1.51
97	B	2.89	3377871	B	3.2	3374523	B	2.88	3374523	B	3.09	3386985	B	2.78	3380754	B	3.58	3374523	B	2.82	3380754	B	5.18
98	B	2.57	3377926	B	2.84	3374578	B	2.62	3374578	B	2.76	3387040	B	2.8	3380809	B	3.27	3374578	B	2.49	3380809	B	4.63
99	C	0.09	99	C	0.08	99	C	0.03	101	C	0.04	101	C	0.02	101	C	0.03	101	C	0.01	101	C	0.02
100	C	0.05	69	C	0.06	69	C	0.02	71	C	0.02	71	C	0.04	71	C	0.03	71	C	0.01	71	C	0.
101	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
102	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
103	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
104	C	0.54	2899	C	0.5	2947	C	0.4	2899	C	0.34	2947	C	0.2	2947	C	0.22	2899	C	0.17	2947	C	0.22
105	C	0.62	1031	C	0.59	1043	C	0.47	3258	C	0.42	3306	C	0.3	3306	C	0.3	3258	C	0.24	3306	C	0.31
106	C	0.56	2397	C	0.53	2431	C	0.35	2397	C	0.3	2437	C	0.2	2437	C	0.2	2397	C	0.18	2431	C	0.2
107	C	0.67	1497	C	0.63	1518	C	0.42	14669	C	0.33	14905	C	0.22	14909	C	0.22	14669	C	0.19	14669	C	0.25
108	C	1.01	2537	C	0.94	2577	C	0.71	2537	C	0.67	2577	C	0.45	2577	C	0.5	2537	C	0.4	2577	C	0.52
109	C	0.69	4995	C	0.64	5075	C	0.51	13687	C	0.45	13911	C	0.3	13911	C	0.31	13687	C	0.26	13911	C	0.33
110	C	0.68	6250	C	0.64	6350	C	0.51	17086	C	0.44	17366	C	0.3	17366	C	0.33	17086	C	0.26	17366	C	0.44
111	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
112	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
113	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
114	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
115	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
116	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
117	C	0.4	4418	C	0.37	4490	C	0.28	4418	C	0.24	4490	C	0.16	4490	C	0.16	4418	C	0.13	4490	C	0.17
118	C	0.72	18343	C	0.7	18631	C	0.55	18343	C	0.49	18631	C	0.34	18631	C	0.33	18343	C	0.27	18631	C	0.37
119	C	1.14	40146	C	1.09	40734	C	0.98	134707	C	0.96	136667	C	1.04	136667	C	0.94	134707	C	0.83	136650	C	1.56
120	C	5.36	156936	C	6.81	159192	C	5.41	156952	C	5.77	159191	C	6.73	159192	C	6.55	156961	C	6.43	156953	C	14.9
121	C	0.72	21562	C	0.63	21850	C	0.46	21534	C	0.45	21850	C	0.36	21850	C	0.38	21534	C	0.31	21534	C	0.48
122	C	0.65	20854	C	0.61	21142	C	0.4	20825	C	0.4	21142	C	0.28	21142	C	0.31	20825	C	0.26	21114	C	0.41
123	C	1.16	28220	C	1.25	28578	C	1.01	28200	C	1.07	28578	C	1.06	28578	C	1.09	28200	C	1.03	28202	C	1.73
124	C	0.86	41906	C	0.76	42482	C	0.54	41862	C	0.55	42478	C	0.47	42482	C	0.5	41862	C	0.41	42434	C	0.66
125	C	0.73	14020	C	0.58	14212	C	0.41	13999	C	0.4	14212	C	0.29	14212	C	0.32	13999	C	0.25	14196	C	0.39
126	C	0.56	6602	C	0.46	6698	C	0.32	6590	C	0.3	6698	C	0.21	6696	C	0.22	6590	C	0.18	6590	C	0.25
127	C	0.83	19553	C	0.77	19809	C	0.58	19529	C	0.6	19809	C	0.44	19809	C	0.47	19529	C	0.39	19529	C	0.58
128	C	0.63	9580	C	0.55	9705	C	0.41	9569	C	0.41	9708	C	0.28	9705	C	0.29	9564	C	0.24	9564	C	0.38
129	C	0.54	2055	C	0.47	2084	C	0.33	2066	C	0.3	2101	C	0.2	2100	C	0.22	2065	C	0.17	2096	C	0.17
130	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0
131	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0

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Table 95 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
132	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
133	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
134	A	0.05	46	A	0.08	45	A	0.03	45	A	0.03	45	A	0.02	45	A	0.02	45	A	0.01	45
135	A	0.06	45	A	0.08	45	A	0.03	45	A	0.03	45	A	0.02	45	A	0.03	45	A	0.01	45
136	B	0.76	280	B	0.84	280	B	0.36	280	B	0.37	280	B	0.32	280	B	0.31	280	B	0.25	280
137	A	0.06	113	A	0.08	113	A	0.03	113	A	0.03	113	A	0.03	113	A	0.02	113	A	0.01	113
138	A	0.06	116	A	0.08	116	A	0.03	116	A	0.03	116	A	0.02	116	A	0.02	116	A	0.01	116
139	A	0.06	69	A	0.09	69	A	0.03	69	A	0.03	69	A	0.02	69	A	0.02	69	A	0.01	69
140	A	0.07	164	A	0.09	164	A	0.04	164	A	0.03	164	A	0.03	164	A	0.01	164	A	0.01	164
141	A	0.07	90	A	0.1	89	A	0.04	89	A	0.03	89	A	0.03	89	A	0.01	89	A	0.01	89
142	A	0.06	113	A	0.08	113	A	0.04	113	A	0.03	113	A	0.03	113	A	0.01	113	A	0.01	113
143	B	0.05	121	B	0.08	121	B	0.03	121	B	0.03	121	B	0.03	121	B	0.01	121	B	0.01	121
144	A	0.1	257	A	0.1	257	A	0.05	257	A	0.04	257	A	0.02	257	A	0.03	257	A	0.01	257
145	A	0.06	160	A	0.09	160	A	0.04	160	A	0.04	160	A	0.02	160	A	0.02	160	A	0.01	160
146	A	0.09	303	A	0.11	303	A	0.06	303	A	0.05	303	A	0.02	303	A	0.02	303	A	0.02	303
147	A	0.05	80	A	0.08	80	A	0.04	80	A	0.02	80	A	0.02	80	A	0.	80	A	0.01	80
148	A	0.04	80	A	0.07	80	A	0.04	80	A	0.02	80	A	0.02	80	A	0.02	80	A	0.01	80
149	A	0.04	121	A	0.07	121	A	0.03	121	A	0.01	121	A	0.01	121	A	0.02	121	A	0.01	121
150	A	0.08	192	A	0.1	225	A	0.05	225	A	0.05	225	A	0.02	225	A	0.01	225	A	0.01	225
151	A	0.07	150	A	0.09	181	A	0.05	181	A	0.04	181	A	0.02	181	A	0.02	181	A	0.01	181
152	A	0.07	109	A	0.09	145	A	0.05	145	A	0.04	145	A	0.02	145	A	0.02	145	A	0.01	145
153	A	0.08	167	B	0.11	428	B	0.06	428	B	0.05	428	B	0.03	428	B	0.02	428	B	0.01	428
154	A	0.08	148	B	0.1	401	B	0.05	401	B	0.04	401	B	0.01	401	B	0.02	401	B	0.01	401
155	A	0.08	140	B	0.1	361	B	0.06	361	B	0.05	361	B	0.02	361	B	0.02	361	B	0.01	361
156	A	0.09	179	B	0.11	435	B	0.07	435	B	0.06	435	B	0.03	435	B	0.03	435	B	0.01	435
157	A	0.09	206	B	0.11	459	B	0.07	459	B	0.06	459	B	0.02	459	B	0.03	459	B	0.01	459
158	A	0.07	349	A	0.09	349	A	0.06	349	A	0.05	349	A	0.02	349	A	0.03	349	A	0.02	349
159	B	0.08	320	B	0.1	320	B	0.07	320	B	0.07	320	B	0.04	320	B	0.03	320	B	0.03	320

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Table 95 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0				
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu
160	A	0.07	100	A	0.11	100	A	0.06	100	A	0.06	100	A	0.03	100	A	0.03	100	A	0.02	100	A	0.03
161	A	0.08	115	A	0.1	115	A	0.07	115	A	0.07	115	A	0.04	115	A	0.05	115	A	0.03	115	A	0.05
162	B	0.07	478	B	0.09	478	B	0.06	478	B	0.05	478	B	0.03	478	B	0.03	478	B	0.02	478	B	0.03
163	B	0.08	638	B	0.11	638	B	0.07	638	B	0.06	638	B	0.03	638	B	0.05	638	B	0.03	638	B	0.03
164	A	0.08	161	A	0.11	161	A	0.08	161	A	0.07	161	A	0.04	161	A	0.05	161	A	0.03	161	A	0.06
165	A	0.09	206	A	0.11	206	A	0.08	206	A	0.07	206	A	0.05	206	A	0.04	206	A	0.04	206	A	0.05
166	B	0.08	499	B	0.1	499	B	0.07	499	B	0.06	499	B	0.04	499	B	0.05	499	B	0.03	499	B	0.05
167	A	0.08	149	A	0.1	149	A	0.07	149	A	0.06	149	A	0.03	149	A	0.03	149	A	0.03	149	A	0.05
168	B	0.08	408	B	0.1	408	B	0.07	408	B	0.06	408	B	0.04	408	B	0.05	408	B	0.03	408	B	0.05
169	A	0.07	197	A	0.1	197	A	0.08	197	A	0.06	197	A	0.04	197	A	0.03	197	A	0.03	197	A	0.05
170	A	0.07	197	A	0.1	197	A	0.07	197	A	0.06	197	A	0.04	197	A	0.03	197	A	0.03	197	A	0.05
171	B	0.06	338	B	0.08	338	B	0.04	338	B	0.03	338	B	0.03	338	B	0.03	338	B	0.01	338	B	0.02
172	A	0.05	131	A	0.07	131	A	0.04	131	A	0.03	131	A	0.02	131	A	0.02	131	A	0.01	131	A	0.02

2.94 $4_Trig_functions\4.2aTangent\4.2.4.2(a+btan)^m(c+dtan)^n(A+Btan+Ctan^2)$

Table 96: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
2	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
3	B	0.02	334	B	0.06	334	B	0.04	334	B	0.01	334	B	0.01	334	B	0.01	334	B	0.01	334	B	0.	334
4	B	0.02	1165	B	0.02	1165	B	0.02	1165	B	0.01	1165	B	0.01	1165	B	0.02	1165	B	0.01	1165	B	0.02	1165
5	B	0.01	262	B	0.01	262	B	0.01	262	B	0.01	262	B	0.01	262	B	0.	262	B	0.02	262	B	0.02	262
6	B	0.08	1554	B	0.27	1554	B	0.05	1554	B	0.03	1554	B	0.02	1554	B	0.03	1554	B	0.02	1554	B	0.03	1554
7	B	0.1	3522	B	0.09	3522	B	0.06	3522	B	0.04	3522	B	0.03	3522	B	0.04	3522	B	0.02	3522	B	0.03	3522
8	B	0.13	2012	B	0.12	2012	B	0.08	2012	B	0.05	2012	B	0.03	2012	B	0.05	2012	B	0.03	2012	B	0.05	2012

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Table 96 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
9	B	0.12	2298	B	0.11	2298	B	0.07	2298	B	0.05	2298	B	0.04	2298	B	0.05	2298	B	0.02	2298	B	0.05	2298
10	B	0.53	11478	B	0.9	11478	B	0.88	11478	B	0.3	11478	B	0.29	11412	B	0.41	11478	B	0.17	11478	B	0.2	11412
11	B	0.14	13474	B	0.2	13474	B	0.16	13474	B	0.15	13474	B	0.13	13474	B	0.15	13474	B	0.06	13474	B	0.11	13451
12	B	0.28	49725	B	0.36	49725	B	0.39	49725	B	0.32	49725	B	0.33	49648	B	0.4	49725	B	0.19	49648	B	0.3	49648
13	B	0.28	61833	B	0.36	61833	B	0.38	61833	B	0.33	61833	B	0.35	61751	B	0.4	61833	B	0.19	61833	B	0.34	61751
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.95 $4_Trig_functions\backslash 4.2aTangent\backslash 4.2.7(dtrig)^m(a+b(ctan)^n)^p$

Table 97: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.04	48	A	0.06	48	A	0.02	48	A	0.02	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48
2	A	0.02	37	A	0.08	37	A	0.02	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
3	A	0.02	64	A	0.05	63	A	0.02	63	A	0.02	64	A	0.	64	A	0.02	63	A	0.	63	A	0.	63

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Table 97 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0			grade	cpu	size
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
4	A	0.04	236	A	0.06	236	A	0.02	233	A	0.02	236	A	0.01	233	A	0.02	235	A	0.	236	A	0.02	2
5	A	0.02	236	A	0.06	236	A	0.03	236	A	0.02	236	A	0.02	236	A	0.	235	A	0.01	236	A	0.02	2
6	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
7	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
9	A	0.6	52	A	0.07	52	B	0.03	58	B	0.01	58	B	0.	58	B	0.	58	B	0.	58	B	0.	5
10	A	0.23	120	A	0.09	122	A	0.06	122	A	0.02	122	A	0.02	122	A	0.	122	A	0.	122	A	0.	1
11	A	0.12	122	A	0.08	122	A	0.04	150	A	0.01	150	A	0.	150	A	0.	150	A	0.	150	A	0.	1
12	A	0.18	185	A	0.24	185	B	0.06	241	B	0.02	241	B	0.	241	B	0.02	241	B	0.	241	B	0.	2
13	A	0.06	183	A	0.1	185	A	0.07	185	A	0.02	185	A	0.	185	A	0.	185	A	0.	185	A	0.	1
14	A	0.07	205	A	0.11	131	A	0.06	131	A	0.02	131	A	0.	131	A	0.02	131	A	0.01	131	A	0.02	1
15	B	0.1	344	B	0.15	344	B	0.11	344	B	0.04	344	B	0.02	344	B	0.03	344	B	0.01	344	B	0.02	3
16	B	0.08	304	B	0.12	239	B	0.08	239	B	0.04	239	B	0.02	239	B	0.02	239	B	0.01	239	B	0.02	2
17	A	0.02	52	A	0.06	52	A	0.03	52	A	0.02	52	A	0.01	52	A	0.02	52	A	0.	52	A	0.02	5
18	A	0.12	169	A	0.16	169	A	0.16	169	A	0.05	169	A	0.01	169	A	0.02	169	A	0.01	169	A	0.02	1
19	B	0.11	844	B	0.16	599	B	0.15	599	B	0.05	599	B	0.03	599	B	0.03	599	B	0.01	599	B	0.02	5
20	B	0.1	504	B	0.14	403	B	0.11	403	B	0.04	403	B	0.02	403	B	0.02	403	B	0.01	403	B	0.02	4
21	B	0.1	598	B	0.15	585	B	0.12	585	B	0.05	585	B	0.01	585	B	0.03	585	B	0.01	585	B	0.02	5
22	C	0.97	2498	C	0.65	2498	C	0.81	3198	C	0.79	3200	C	0.58	3200	C	0.61	3198	C	0.48	3198	C	0.53	31
23	B	0.75	2866	B	0.55	2866	B	0.12	1340	B	0.1	1340	B	0.05	1340	B	0.05	1340	B	0.04	1340	B	0.05	13
24	C	0.28	1353	C	0.36	1355	C	0.42	1395	C	0.4	1395	C	0.3	1397	C	0.33	1395	C	0.22	1397	C	0.28	13
25	C	0.35	4594	C	0.43	4594	C	0.45	4636	C	0.42	4636	C	0.27	4636	C	0.28	4636	C	0.18	4636	C	0.22	46
26	B	0.33	2801	B	0.49	2801	B	0.12	679	B	0.33	3373	B	0.2	3373	B	0.22	3373	B	0.15	3373	B	0.16	33
27	C	1.36	1614	C	1.13	1614	C	1.01	2785	C	0.9	2785	C	0.58	2784	C	0.6	2785	C	0.4	2784	C	0.45	27
28	A	0.56	264	A	0.67	264	B	0.68	346	B	0.68	346	B	0.45	346	B	0.5	346	B	0.34	346	B	0.25	3
29	A	0.07	147	A	0.11	147	A	0.06	147	A	0.05	147	A	0.03	147	A	0.02	147	A	0.01	147	A	0.03	1
30	B	2.1	9323	B	2.2	9310	B	1.93	10407	B	1.82	10407	B	1.02	10407	B	1.02	10407	B	0.76	10407	B	1.06	10
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	

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Table 97 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0			grade	cpu	size
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
32	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
33	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
34	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
35	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
36	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
37	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	
38	A	0.02	95	A	0.06	95	A	0.02	95	A	0.01	95	A	0.02	95	A	0.01	95	A	0.	95	A	0.	9
39	A	0.	78	A	0.04	78	A	0.	78	A	0.01	78	A	0.	78	A	0.	78	A	0.	78	A	0.02	7
40	A	0.04	31	A	0.08	31	A	0.04	31	A	0.01	31	A	0.	31	A	0.02	31	A	0.	31	A	0.02	3
41	A	0.	104	A	0.04	104	A	0.	104	A	0.01	104	A	0.	104	A	0.01	104	A	0.	104	A	0.	1
42	B	0.01	132	B	0.04	132	B	0.01	132	B	0.01	132	B	0.02	132	B	0.01	132	B	0.	132	B	0.	1
43	A	0.07	91	A	0.11	91	A	0.05	91	A	0.01	91	A	0.02	91	A	0.	91	A	0.	91	A	0.02	9
44	A	0.02	54	A	0.06	54	A	0.02	54	A	0.02	54	A	0.02	54	A	0.02	54	A	0.	54	A	0.02	5
45	A	0.02	50	A	0.06	50	A	0.02	50	A	0.02	50	A	0.02	50	A	0.02	50	A	0.	50	A	0.02	5
46	B	0.11	264	B	0.14	264	B	0.11	264	B	0.04	264	B	0.02	264	B	0.02	264	B	0.01	264	B	0.02	2
47	A	0.02	70	A	0.06	70	A	0.03	70	A	0.02	70	A	0.02	70	A	0.02	70	A	0.	70	A	0.02	7
48	A	0.08	73	A	0.13	73	A	0.09	73	A	0.04	73	A	0.03	73	A	0.02	73	A	0.01	73	A	0.02	7
49	A	0.03	109	A	0.07	80	A	0.03	80	A	0.02	80	A	0.02	80	A	0.02	80	A	0.01	80	A	0.	8
50	A	0.03	104	A	0.06	76	A	0.02	76	A	0.02	76	A	0.02	76	A	0.01	76	A	0.	76	A	0.	7
51	A	0.12	160	A	0.17	160	A	0.12	160	A	0.04	160	A	0.03	160	A	0.02	160	A	0.01	160	A	0.02	1
52	A	0.11	187	A	0.16	186	A	0.11	186	A	0.05	186	A	0.02	186	A	0.01	186	A	0.01	186	A	0.	1
53	A	0.12	218	A	0.17	217	A	0.13	217	A	0.06	217	A	0.02	217	A	0.02	217	A	0.01	217	A	0.	2
54	B	0.	154	B	0.04	154	B	0.01	154	B	0.01	154	B	0.	154	B	0.01	154	B	0.	154	B	0.	1
55	A	0.03	29	A	0.06	29	A	0.03	29	A	0.02	29	A	0.	29	A	0.02	29	A	0.01	29	A	0.02	2
56	A	0.08	25	A	0.13	25	A	0.09	25	A	0.08	25	A	0.05	25	A	0.06	25	A	0.04	25	A	0.03	2
57	A	0.08	32	A	0.12	32	A	0.09	32	A	0.08	32	A	0.06	32	A	0.06	32	A	0.04	32	A	0.03	3
58	A	0.06	29	A	0.11	29	A	0.08	29	A	0.06	29	A	0.03	29	A	0.04	29	A	0.02	29	A	0.03	2
59	A	0.08	38	A	0.13	38	A	0.09	38	A	0.08	38	A	0.05	38	A	0.06	38	A	0.04	38	A	0.03	3

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Table 97 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0			grade	cpu	size
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
60	A	0.09	31	A	0.14	31	A	0.1	31	A	0.09	31	A	0.08	31	A	0.07	31	A	0.04	31	A	0.05	31
61	A	0.04	25	A	0.06	25	A	0.03	25	A	0.02	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
62	A	0.03	88	A	0.06	88	A	0.02	88	A	0.01	88	A	0.	88	A	0.	88	A	0.	88	A	0.	88
63	A	0.03	32	A	0.06	32	A	0.02	32	A	0.01	32	A	0.	32	A	0.02	32	A	0.	32	A	0.	32
64	A	0.02	17	A	0.05	17	A	0.02	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
65	B	0.26	615	B	0.41	615	B	0.08	350	B	0.19	1325	B	0.14	1325	B	0.16	1325	B	0.1	1325	B	0.16	1325
66	B	0.04	451	B	0.07	451	B	0.03	451	B	0.03	451	B	0.03	451	B	0.02	451	B	0.02	451	B	0.03	451
67	C	0.35	2233	C	0.43	2233	C	0.47	2233	C	0.4	2233	C	0.3	2233	C	0.33	2233	C	0.2	2233	C	0.19	2233
68	B	0.03	669	B	0.06	669	B	0.02	669	B	0.02	669	B	0.02	669	B	0.03	669	B	0.02	669	B	0.02	669
69	C	0.48	3335	C	0.6	3333	C	0.58	3375	C	0.57	3377	C	0.44	3375	C	0.49	3375	C	0.3	3375	C	0.17	3375
70	A	0.02	58	A	0.06	58	A	0.02	58	A	0.01	58	A	0.	58	A	0.01	58	A	0.01	58	A	0.	58
71	B	0.27	7641	B	0.42	7641	B	0.13	1870	B	0.26	9083	B	0.17	9083	B	0.18	9083	B	0.12	9083	B	0.17	9083
72	A	0.03	141	A	0.06	141	A	0.03	141	A	0.02	141	A	0.02	141	A	0.02	141	A	0.01	141	A	0.02	141
73	A	0.03	94	A	0.06	94	A	0.02	94	A	0.02	94	A	0.02	94	A	0.02	94	A	0.01	94	A	0.02	94
74	B	31.18	531573	B	40.23	531573	B	0.12	2483	B	100.69	626847	B	53.65	626847	B	50.18	626847	B	53.9	626847	B	76.89	626847
75	B	47.5	790286	B	73.2	790286	B	0.13	4424	B	380.58	931640	B	110.59	931640	B	104.82	931640	B	161.67	931640	B	180.	626847
76	B	0.02	291	B	0.05	291	B	0.01	291	B	0.01	291	B	0.	291	B	0.02	291	B	0.01	291	B	0.02	291
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
79	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
80	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	A	0.03	34	A	0.06	34	A	0.02	34	A	0.02	34	A	0.02	34	A	0.02	34	A	0.01	34	A	0.02	34
82	A	0.03	374	A	0.06	374	A	0.03	374	A	0.02	374	A	0.02	374	A	0.01	374	A	0.01	374	A	0.	374
83	C	0.11	179	C	0.09	179	C	0.06	179	C	0.05	179	C	0.03	179	C	0.03	179	C	0.02	179	C	0.03	179
84	B	0.12	602	B	0.2	602	B	0.06	602	B	0.06	602	B	0.05	602	B	0.06	602	B	0.05	602	B	0.06	602
85	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 97 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0			grade	cpu	size
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
89	A	0.12	81	A	0.08	81	A	0.03	86	A	0.02	86	A	0.	86	A	0.	86	A	0.	86	A	0.	8
90	B	0.2	248	B	0.11	250	B	0.06	250	B	0.03	250	B	0.02	250	B	0.	250	B	0.	250	B	0.02	2
91	A	0.05	178	A	0.08	178	A	0.04	178	A	0.03	178	A	0.	178	A	0.	178	A	0.	178	A	0.	1
92	A	0.2	183	A	0.1	183	B	0.05	239	B	0.03	239	B	0.	239	B	0.	239	B	0.	239	B	0.	2
93	A	0.14	157	A	0.11	166	A	0.06	177	A	0.02	177	A	0.	177	A	0.	177	A	0.	177	A	0.	1
94	A	0.13	122	A	0.08	122	A	0.05	132	A	0.02	132	A	0.	132	A	0.	132	A	0.	132	A	0.02	1
95	A	0.08	98	A	0.1	84	A	0.07	84	A	0.03	84	A	0.	84	A	0.02	84	A	0.	84	A	0.	8
96	A	0.07	66	A	0.11	66	A	0.07	66	A	0.03	66	A	0.02	66	A	0.01	66	A	0.01	66	A	0.02	6
97	A	0.08	102	A	0.11	130	A	0.08	130	A	0.04	130	A	0.02	130	A	0.01	130	A	0.	130	A	0.	1
98	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
99	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
100	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.96 $4_Trig_functions\4.2aTangent\4.2.9trig^m(a+btan^n+ctan^{(2n)})^p$

Table 98: Breakdown of results for each integral

#	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			grade	cpu	size
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
1	B	0.88	17767396	B	0.79	17767396	B	0.69	17767396	B	0.5	17767396	B	0.78	17767396	B	1.28	17767396	B	0.94	17768518	F	0	0
2	B	29.08	1166066	B	28.19	1166138	B	21.81	2644101	B	20.71	2645586	B	24.64	2652208	B	28.16	2656675	C	21.02	2655390	C	0	0
3	B	2.43	637554	B	2.32	637626	B	2.57	771360	B	2.42	771822	B	2.94	774098	B	2.93	775550	C	1.98	772878	C	0	0
4	B	5.13	1984216	B	5.19	1984552	B	5.94	2203776	B	5.76	2205080	B	7.28	2212656	B	7.11	2217120	C	5.33	2209540	C	0	0
5	B	0.23	13067596	B	0.24	13067596	B	0.22	13067596	B	0.2	13067596	B	0.4	13067596	B	0.71	13067521	B	0.56	13068421	E	0	0
6	B	42.26	14872004	B	95.99	14873900	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
7	B	0.24	467	B	0.27	467	B	0.34	467	B	0.12	467	B	0.03	467	B	0.05	485	B	0.02	485	E	0	0
8	A	0.05	289	A	0.05	289	A	0.02	289	A	0.01	289	A	0.	289	A	0.	307	A	0.	307	A	0.	307

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
9	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	F	0	0	F	0	0	B	0.24	2339	F	0	0	F	0	0	F	0	0	F	0	0

2.97 $4_Trig_functions\4.2bCotangent\4.2.0(atrg)^m(bcot)^n$

Table 99: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
1	A	0.	17	A	0.03	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.02	17			
2	A	0.02	52	A	0.04	52	A	0.	52	A	0.02	52	A	0.	52	A	0.02	52	A	0.	52			
3	A	0.15	214	A	0.18	214	A	0.13	214	A	0.15	217	A	0.09	227	A	0.11	224	A	0.96	214	F	0	0
4	A	0.07	203	A	0.15	203	A	0.1	203	A	0.12	206	A	0.06	202	A	0.07	199	A	0.16	199	F	0	0
5	A	0.02	114	A	0.05	114	A	0.01	114	A	0.01	114	A	0.02	114	A	0.	114	A	0.	114	A	0.02	114
6	A	0.02	29	A	0.05	29	A	0.02	29	A	0.02	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
7	A	0.02	37	A	0.06	36	A	0.02	36	A	0.02	37	A	0.02	37	A	0.02	36	A	0.	37	A	0.02	37
8	A	0.03	185	A	0.06	189	A	0.03	185	A	0.02	189	A	0.	189	A	0.	189	A	0.01	189	A	0.02	185
9	A	0.02	164	A	0.05	166	A	0.02	164	A	0.02	166	A	0.02	166	A	0.02	165	A	0.	165	A	0.	165
10	A	0.02	40	A	0.06	40	A	0.02	40	A	0.02	40	A	0.	40	A	0.02	40	A	0.	40	A	0.02	40
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.98 $4_Trig_functions\4.2bCotangent\4.2.10(c+dx)^m(a+bcot)^n$

Table 100: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
1	B	0.13	240	B	0.12	240	B	0.04	240	B	0.07	240	B	0.03	240	B	0.06	240	B	0.04	240	B	0.02	240

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Table 100 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
2	A 0.02 56	A 0.06 56	A 0.02 56	A 0.02 56	A 0. 56	A 0.02 56	A 0.01 56	A 0.02 56
3	A 0.17 108	A 0.24 108	A 0.17 108	A 0.16 108	A 0.08 108	A 0.09 108	A 0.07 108	A 0.09 108
4	A 0.15 139	A 0.18 139	A 0.14 139	A 0.18 139	A 0.06 139	A 0.06 139	A 0.05 139	A 0.08 50
5	A 0.16 67	A 0.19 67	A 0.15 67	A 0.19 67	A 0.08 67	A 0.08 67	A 0.06 67	A 0.11 67
6	A 0.29 118	A 0.11 382	A 0.29 118	A 0.28 118	A 0.17 118	A 0.17 118	A 0.13 118	A 0.22 118
7	B 0.26 1843	B 0.18 1843	A 0.57 238	B 0.1 1887	B 0.03 1887	A 0.39 238	B 0.03 1887	B 0.05 1887
8	B 0.08 653	B 0.12 653	A 0.43 114	B 0.04 675	B 0.03 675	A 0.28 114	B 0.02 675	B 0.03 675
9	A 0.09 560	A 0.13 560	A 0.47 169	A 0.08 560	A 0.03 560	A 0.32 169	A 0.02 560	A 0.05 560
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	B 0.42 3446	B 0.5 3446	B 0.43 3446	B 0.39 3446	B 0.23 3221	B 0.28 3446	B 0.19 3446	B 0.39 3446
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.99 $4_Trig_functions\4.2bCotangent\4.2.1.2(dcsc)^m(a+bcot)^n$

Table 101: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.07 66	A 0.1 66	A 0.07 66	A 0.04 66	A 0.02 66	A 0.03 66	A 0.02 66	A 0.02 74
2	A 0.03 12	A 0.06 12	A 0.03 12	A 0.02 12	A 0.02 12	A 0.02 12	A 0.01 12	A 0.02 14
3	B 0.06 92	B 0.09 92	B 0.06 92	B 0.03 92	B 0.02 92	B 0.02 92	B 0.01 92	B 0.03 92
4	B 0.06 173	A 0.09 135	A 0.06 135	A 0.03 135	A 0.02 135	A 0.02 135	A 0.01 135	A 0.02 135
5	A 0.03 21	A 0.06 21	A 0.03 21	A 0.01 21	F 0 0	F 0 0	F 0 0	F 0 0

2.100 $4_Trig_functions\4.2bCotangent\4.2.1.3(dcos)^m(a+bcot)^n$

Table 102: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.05	56	A	0.09	56	A	0.06	56	A	0.03	56	A	0.02	56	A	0.03	56	A	0.01	56	A	0.02	62
2	B	0.05	49	B	0.08	49	B	0.05	49	B	0.03	49	B	0.02	49	B	0.02	49	B	0.01	49	B	0.02	55
3	B	0.05	34	B	0.09	34	B	0.06	34	B	0.04	34	B	0.01	34	B	0.03	34	B	0.01	34	B	0.02	36
4	B	0.06	385	A	0.1	211	A	0.06	211	A	0.04	211	A	0.02	211	A	0.02	211	A	0.01	211	A	0.02	211
5	A	0.08	37	A	0.13	37	A	0.09	37	A	0.05	37	A	0.02	37	A	0.	37	A	0.01	37	A	0.	37

2.101 $4_Trig_functions\4.2bCotangent\4.2.2.1(a+bcot)^m(c+dcot)^n$

Table 103: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
2	B	0.04	388	B	0.07	388	B	0.03	388	B	0.02	388	B	0.	388	B	0.02	388	B	0.01	388	B	0.02	388
3	A	0.03	234	A	0.07	234	A	0.02	234	A	0.02	234	A	0.02	234	A	0.02	234	A	0.01	234	A	0.	234
4	A	0.03	216	A	0.08	216	A	0.03	216	A	0.03	216	A	0.03	216	A	0.02	216	A	0.01	216	A	0.	216
5	B	0.04	446	B	0.08	446	B	0.03	446	B	0.02	446	B	0.02	446	B	0.02	446	B	0.01	446	B	0.	446
6	B	0.03	419	B	0.07	419	B	0.02	419	B	0.02	419	B	0.02	419	B	0.02	419	B	0.01	419	B	0.02	419
7	B	0.03	379	B	0.07	379	B	0.02	379	B	0.02	379	B	0.02	379	B	0.02	379	B	0.01	379	B	0.02	379
8	B	0.04	358	B	0.09	358	B	0.04	358	B	0.04	358	B	0.01	358	B	0.02	358	B	0.02	358	B	0.02	358
9	B	0.05	426	B	0.1	426	B	0.05	426	B	0.04	426	B	0.03	426	B	0.02	426	B	0.02	426	B	0.	426
10	B	0.25	265	B	0.12	265	B	0.08	265	B	0.09	265	B	0.06	265	B	0.06	265	B	0.06	265	B	0.05	265
11	B	0.05	452	B	0.05	452	B	0.02	452	B	0.01	452	B	0.02	452	B	0.	452	B	0.03	452	B	0.	452
12	B	0.04	558	B	0.08	558	B	0.03	558	B	0.03	558	B	0.02	558	B	0.01	558	B	0.01	558	B	0.02	558
13	A	0.05	429	A	0.1	429	A	0.04	429	A	0.04	429	A	0.02	429	A	0.01	429	A	0.02	429	A	0.02	429
14	A	0.04	423	A	0.09	423	A	0.04	423	A	0.04	423	A	0.02	423	A	0.02	423	A	0.02	423	A	0.02	423
15	B	0.06	765	B	0.1	722	B	0.05	722	B	0.05	722	B	0.03	722	B	0.03	722	B	0.02	722	B	0.	722

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Table 103 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
16	B 0.06 356	B 0.08 356	B 0.03 356	B 0.03 356	B 0.02 356	B 0.02 356	B 0.01 356	B 0.02 356
17	B 0.05 559	B 0.09 559	B 0.03 559	B 0.02 559	B 0.01 559	B 0.02 559	B 0.01 559	B 0.02 559
18	B 0.13 963	B 0.07 963	B 0.02 963	B 0.02 968	B 0. 968	B 0.02 968	B 0.07 963	B 0. 968
19	B 0.07 1369	B 0.15 1369	B 0.1 1369	B 0.12 1375	B 0.08 1375	B 0.09 1375	B 0.04 1375	B 0.08 1369
20	B 0.07 3967	B 0.15 3967	B 0.1 3967	B 0.12 3976	B 0.08 3976	B 0.08 3976	B 0.04 3967	B 0.08 3976
21	B 0.11 7944	B 0.2 7944	B 0.15 7944	B 0.17 7951	B 0.12 7951	B 0.12 7951	B 0.08 7951	B 0.12 7944
22	B 0.1 3046	B 0.17 3046	B 0.13 3046	B 0.14 3055	B 0.09 3055	B 0.11 3055	B 0.06 3055	B 0.11 3046

2.102 $4_Trig_functions\4.2bCotangent\4.2.7(dtrig)^m(a+b(ccot)^n)^p$

Table 104: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	C 0.4 2494	C 0.32 2494	C 0.29 7414	C 0.28 7534	C 0.16 7534	C 0.16 7414	C 0.17 7414	C 0.12 7534
2	A 0.02 19	A 0.06 19	A 0.03 19	A 0.04 19	A 0. 19	A 0.02 19	A 0. 19	A 0.02 19
3	B 0.14 58	A 0.13 56	A 0.12 51	A 0.11 52	A 0.08 54	A 0.08 51	A 0.08 54	A 0.06 52
4	A 0.07 33	A 0.12 33	A 0.09 39	A 0.08 39	A 0.05 39	A 0.03 39	A 0.04 39	A 0.05 39
5	A 0.04 84	A 0.06 84	A 0.03 84	A 0.02 84	A 0. 84	A 0.01 84	A 0.01 84	A 0. 84
6	B 0.36 951	B 0.49 951	B 0.37 1772	B 0.36 1771	B 0.3 1772	B 0.31 1772	B 0.26 1772	B 0.39 1772
7	B 0.02 136	B 0.06 136	B 0.02 136	B 0.02 136	B 0.01 136	B 0.02 136	B 0.01 136	B 0.02 136
8	C 0.39 2628	C 0.48 2628	C 0.4 2656	C 0.41 2656	C 0.33 2656	C 0.33 2656	C 0.27 2656	C 0.17 2656
9	B 0.2 1270	B 0.37 1270	B 0.23 1493	B 0.2 1493	B 0.17 1493	B 0.17 1493	B 0.16 1493	B 0.19 1493
10	B 0.04 170	B 0.07 170	B 0.03 170	B 0.02 170	B 0. 170	B 0.02 170	B 0.01 170	B 0.02 170
11	A 0.02 80	A 0.06 80	A 0.02 80	A 0.02 80	A 0. 80	A 0.02 80	A 0. 80	A 0.02 80
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	B 0.07 248	B 0.19 248	B 0.06 248	B 0.05 248	B 0.03 248	B 0.02 248	B 0.02 248	B 0.03 248

2.103 $4_Trig_functions\4.2bCotangent\4.2.9trig^m(a+bcot^n+ccot^{(2n)})^p$

Table 105: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grad
1	B	0.72	9581343	B	0.65	9581343	B	0.55	9581343	B	0.05	9581343	B	0.13	9581343	B	0.28	9581343	B	0.24	9581948	B
2	B	0.04	9338543	B	0.04	9338543	B	0.03	9338543	B	0.02	9338543	B	0.12	9338543	B	0.49	9338543	B	0.45	9339148	B
3	B	22.59	1838059	B	27.62	1839105	B	31.2	2048311	B	30.44	2047239	B	39.91	2052224	B	40.84	2054105	C	35.5	2049381	C
4	B	0.23	13067599	B	0.25	13067599	B	0.23	13067599	B	0.04	13067599	B	0.18	13067599	B	0.38	13067524	B	0.32	13068424	B
5	B	58.95	21359625	B	179.96	21373097	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F
6	F	0	0	F	0	0	B	0.24	827	B	0.18	829	B	0.15	829	B	0.17	829	B	0.13	829	B
7	F	0	0	F	0	0	B	0.17	3454	B	0.14	3454	B	0.14	3454	B	0.11	3454	B	0.12	3454	B

2.104 $4_Trig_functions\4.3aSecant\4.3.0(asec)^m(btrg)^n$

Table 106: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.06	11	A	0.04	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
2	A	0.05	38	A	0.04	40	A	0.02	40	A	0.03	40	A	0.	40	A	0.	40	A	0.	40	A	0.02	40
3	A	0.06	44	A	0.05	53	A	0.02	70	A	0.	70	A	0.	70	A	0.	70	A	0.	70	A	0.	70
4	B	0.19	353	B	0.07	353	B	0.03	353	B	0.04	353	B	0.03	353	B	0.05	353	B	0.03	353	B	0.03	353
5	B	0.04	229	B	0.06	229	B	0.03	229	B	0.02	229	B	0.03	229	B	0.02	229	B	0.03	229	B	0.02	229
6	B	0.04	143	B	0.08	143	B	0.03	143	B	0.02	143	B	0.02	143	B	0.03	143	B	0.02	143	B	0.03	143
7	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 106 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
11	B 0.08 21	B 0.09 21	B 0.05 21	B 0.06 21	B 0.03 21	B 0.03 21	B 0.03 21	B 0.03 21
12	A 0.07 21	A 0.1 21	A 0.06 21	A 0.08 21	A 0.03 21	A 0.05 21	A 0.04 21	A 0.03 21
13	A 0.16 65	A 0.21 66	A 0.17 65	A 0.2 66	A 0.12 66	A 0.12 65	A 0.11 66	A 0.05 66
14	C 0.51 223	C 0.39 223	C 0.38 571	C 0.41 571	C 0.31 571	C 0.37 571	C 0.4 571	C 0.27 571
15	C 0.4 114	C 0.39 114	C 0.36 216	C 0.39 216	C 0.3 216	C 0.33 216	C 0.32 216	C 0.17 216
16	A 0.26 41	A 0.32 41	A 0.29 41	A 0.3 41	A 0.23 41	A 0.23 41	A 0.18 41	A 0.08 41
17	A 0.05 14	A 0.1 14	A 0.06 14	A 0.06 14	A 0.05 14	A 0.05 14	A 0.04 14	A 0.03 14
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	C 0.19 356	C 0.23 356	C 0.19 926	C 0.2 926	C 0.14 926	C 0.16 926	C 0.18 926	C 0.11 926
20	C 0.16 130	C 0.16 130	C 0.13 334	C 0.11 334	C 0.09 334	C 0.11 334	C 0.14 334	C 0.06 334
21	C 0.18 152	C 0.24 152	C 0.2 344	C 0.19 344	C 0.14 344	C 0.16 344	C 0.14 344	C 0.06 344
22	C 0.15 356	C 0.2 356	C 0.16 926	C 0.16 926	C 0.12 926	C 0.12 926	C 0.14 926	C 0.11 926
23	C 0.16 129	C 0.19 129	C 0.15 331	C 0.13 331	C 0.11 327	C 0.11 331	C 0.11 331	C 0.05 331
24	C 0.24 153	C 0.31 153	C 0.24 341	C 0.24 341	C 0.17 343	C 0.2 341	C 0.17 341	C 0.08 343
25	C 0.25 318	C 0.32 316	C 0.25 318	C 0.26 318	C 0.19 316	C 0.2 318	C 0.18 318	C 0.09 316
26	C 0.16 125	C 0.21 125	C 0.18 334	C 0.15 334	C 0.11 334	C 0.11 334	C 0.12 334	C 0.06 334
27	C 0.22 323	C 0.29 321	C 0.26 323	C 0.25 323	C 0.2 321	C 0.2 323	C 0.17 323	C 0.08 321
28	C 0.42 351	C 0.49 351	C 0.48 926	C 0.49 926	C 0.37 926	C 0.38 926	C 0.34 926	C 0.12 926
29	C 0.25 322	C 0.32 322	C 0.27 602	C 0.27 602	C 0.2 602	C 0.22 602	C 0.2 602	C 0.09 602
30	C 0.18 153	C 0.22 153	C 0.18 341	C 0.16 341	C 0.12 343	C 0.14 341	C 0.12 341	C 0.08 341
31	A 0.12 39	A 0.15 39	A 0.1 39	A 0.08 39	A 0.06 39	A 0.06 39	A 0.07 39	A 0.05 39
32	A 0.14 54	A 0.17 54	A 0.11 54	A 0.11 54	A 0.06 54	A 0.06 54	A 0.07 54	A 0.06 54
33	A 0.2 130	A 0.25 131	A 0.19 130	A 0.21 131	A 0.14 131	A 0.17 130	A 0.13 131	A 0.06 131
34	A 0.17 62	A 0.22 62	A 0.17 62	A 0.17 62	A 0.12 62	A 0.11 62	A 0.1 62	A 0.06 62
35	A 0.12 52	A 0.15 52	A 0.09 52	A 0.09 52	A 0.05 52	A 0.05 52	A 0.06 52	A 0.05 52
36	A 0.11 54	A 0.15 54	A 0.1 54	A 0.09 54	A 0.05 54	A 0.06 54	A 0.06 54	A 0.06 54
37	A 0.1 32	A 0.14 32	A 0.09 32	A 0.07 32	A 0.03 32	A 0.03 32	A 0.04 32	A 0.03 32
38	A 0.13 52	A 0.17 52	A 0.12 52	A 0.09 52	A 0.05 52	A 0.06 52	A 0.07 52	A 0.05 52

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Table 106 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	A 0.02 17	A 0.06 17	A 0.03 24	A 0.02 24	A 0.02 24	A 0. 24	A 0.02 24	A 0.02 24
47	A 0.02 17	A 0.05 17	A 0.02 24	A 0.02 24	A 0. 24	A 0. 24	A 0.02 24	A 0. 24
48	A 0.02 17	A 0.06 17	A 0.03 24	A 0.02 24	A 0.02 24	A 0. 24	A 0.02 24	A 0.02 24
49	C 0.21 275	C 0.21 280	C 0.15 271	C 0.12 280	C 0.08 280	C 0.08 275	C 0.12 276	C 0.09 280
50	A 0.2 186	A 0.2 188	A 0.17 186	A 0.15 188	A 0.11 188	A 0.09 186	A 0.13 188	A 0.08 188
51	A 0.22 190	A 0.21 192	A 0.17 190	A 0.16 192	A 0.12 192	A 0.12 190	A 0.16 192	A 0.11 192
52	B 0.24 976	B 0.26 992	B 0.22 977	B 0.21 993	B 0.14 993	B 0.14 977	B 0.15 992	B 0.08 992
53	B 0.19 509	B 0.2 517	B 0.15 509	B 0.14 515	B 0.11 517	B 0.11 509	B 0.12 517	B 0.08 517
54	B 0.2 977	B 0.26 993	B 0.22 977	B 0.2 992	B 0.12 992	B 0.14 976	B 0.13 993	B 0.11 992
55	C 0.23 658	C 0.25 668	C 0.19 658	C 0.17 668	C 0.11 668	C 0.12 658	C 0.14 668	C 0.12 668
56	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.105 4_Trig_functions\4.3aSecant\4.3.10(c+dx)^m(a+bsec)ⁿ

Table 107: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	B 0.21 747	B 0.3 747	B 0.18 747	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	C 0.16 274	C 0.16 274	C 0.09 274	C 0.07 274	C 0.06 274	C 0.05 274	C 0.05 274	C 0.11 274
3	B 0.15 442	B 0.23 442	B 0.18 442	B 0.16 442	B 0.1 442	B 0.09 442	B 0.09 442	B 0.19 442
4	A 0.08 138	A 0.12 138	A 0.08 138	A 0.05 138	A 0.03 138	A 0.03 138	A 0.02 138	A 0.08 138
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	B 0.11 431	B 0.19 431	B 0.1 431	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	B 0.15 651	B 0.23 651	B 0.15 651	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.106 $4_Trig_functions\4.3aSecant\4.3.11(ex)^m(a+bsec(c+dx^n))^p$

Table 108: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	A 0.05 92	A 0.05 94	A 0.02 94	A 0. 94	A 0. 94	A 0. 94	A 0. 94	A 0. 94
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 108 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	C 0.32 159	C 0.42 159	C 0.2 159	C 0.29 159	C 0.14 159	C 0.16 159	C 0.13 159	C 0.19 159
14	C 0.45 881	C 0.3 881	C 0.24 881	C 0.29 881	C 0.16 415	C 0.2 723	C 0.16 415	C 0.22 415
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.107 $4_Trig_functions\4.3aSecant\4.3.1.2(dsec)^n(a+bsec)^m$

Table 109: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.1 92	A 0.08 102	A 0.04 102	A 0. 102	A 0. 102	A 0. 102	A 0. 102	A 0.02 102
2	A 0. 24	A 0.04 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24	A 0. 24
3	A 0.03 58	A 0.07 68	A 0.05 68	A 0.01 68	A 0. 68	A 0. 68	A 0. 68	A 0. 68
4	A 0.04 80	A 0.08 90	A 0.05 90	A 0. 90	A 0. 90	A 0. 90	A 0. 90	A 0. 90
5	A 0.08 86	A 0.12 96	A 0.12 96	A 0.04 96	A 0.02 96	A 0. 96	A 0. 96	A 0. 96
6	A 0.08 86	A 0.12 94	A 0.1 94	A 0.04 94	A 0. 94	A 0.02 94	A 0. 94	A 0. 94
7	A 0.13 94	A 0.13 94	A 0.1 94	A 0.04 94	A 0.02 94	A 0. 94	A 0. 94	A 0.02 94
8	A 0.09 168	A 0.1 178	A 0.07 178	A 0.01 178	A 0. 178	A 0. 178	A 0. 178	A 0.02 178
9	A 0.05 143	A 0.09 143	A 0.06 143	A 0.03 143	A 0.03 143	A 0.02 143	A 0.01 143	A 0. 143
10	A 0.07 171	A 0.1 165	A 0.06 165	A 0.04 165	A 0.02 165	A 0.02 165	A 0.01 165	A 0. 165
11	A 0.04 120	A 0.08 120	A 0.05 120	A 0.03 120	A 0.02 120	A 0.02 120	A 0.01 120	A 0.02 120
12	A 0.07 141	A 0.11 139	A 0.08 139	A 0.05 139	A 0.02 139	A 0.02 139	A 0.01 139	A 0.02 139
13	A 0.06 200	A 0.1 200	A 0.08 200	A 0.03 200	A 0.02 200	A 0.02 200	A 0.01 200	A 0.02 200
14	A 0.04 56	A 0.08 56	A 0.04 56	A 0.01 56	A 0. 56	A 0. 56	A 0. 56	A 0. 56

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Table 109 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
15	A	0.04	58	A	0.08	58	A	0.04	58	A	0.01	58	A	0.	58	A	0.	58	A	0.	58	A	0.02	58
16	A	0.05	71	A	0.09	71	A	0.05	71	A	0.01	71	A	0.	71	A	0.	71	A	0.	71	A	0.	71
17	A	0.05	45	A	0.09	45	A	0.04	45	A	0.01	45	A	0.01	45	A	0.	45	A	0.	45	A	0.	45
18	A	0.16	83	A	0.21	83	A	0.18	83	A	0.15	83	A	0.08	83	A	0.09	83	A	0.08	83	A	0.08	83
19	A	0.11	63	A	0.15	63	A	0.11	63	A	0.09	63	A	0.05	63	A	0.05	63	A	0.06	63	A	0.05	63
20	B	0.17	125	B	0.19	125	B	0.14	125	B	0.12	125	B	0.06	125	B	0.09	125	B	0.08	125	B	0.05	125
21	B	0.16	214	B	0.21	214	B	0.16	214	B	0.12	214	B	0.09	214	B	0.09	214	B	0.08	214	B	0.06	214
22	B	0.35	402	A	0.35	157	A	0.3	157	A	0.26	157	A	0.19	157	A	0.19	157	A	0.14	157	A	0.09	157
23	B	0.16	314	B	0.22	314	B	0.19	314	B	0.14	314	B	0.08	314	B	0.08	314	B	0.08	314	B	0.06	314
24	A	0.12	121	A	0.16	121	A	0.13	121	A	0.1	121	A	0.03	121	A	0.05	121	A	0.05	121	A	0.05	121
25	B	0.18	201	B	0.22	202	B	0.18	201	B	0.17	201	B	0.08	202	B	0.09	201	B	0.09	201	B	0.08	201
26	B	0.11	220	B	0.15	222	B	0.12	220	B	0.08	222	B	0.05	222	B	0.05	220	B	0.04	220	B	0.05	222
27	B	0.18	417	B	0.22	417	B	0.2	593	B	0.14	593	B	0.06	593	B	0.08	593	B	0.08	593	B	0.08	593
28	A	0.16	119	A	0.19	119	A	0.16	122	A	0.12	122	A	0.05	122	A	0.06	122	A	0.06	122	A	0.09	122
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
33	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
34	A	0.06	261	A	0.08	261	A	0.03	261	A	0.03	261	A	0.02	261	A	0.03	261	A	0.02	261	A	0.02	261
35	A	0.06	253	A	0.08	253	A	0.04	253	A	0.04	253	A	0.02	253	A	0.03	253	A	0.03	253	A	0.02	252
36	A	0.05	252	A	0.09	252	A	0.05	252	A	0.04	252	A	0.02	252	A	0.03	252	A	0.03	252	A	0.03	252
37	B	0.06	518	B	0.09	518	B	0.05	518	B	0.05	518	B	0.01	518	B	0.03	518	B	0.04	518	B	0.03	516
38	A	0.04	271	A	0.08	271	A	0.04	271	A	0.04	271	A	0.02	271	A	0.02	271	A	0.02	271	A	0.02	271
39	A	0.1	284	A	0.12	284	A	0.1	284	A	0.07	284	A	0.03	284	A	0.05	284	A	0.04	284	A	0.06	284
40	A	0.12	310	A	0.14	310	A	0.11	310	A	0.08	310	A	0.05	310	A	0.06	310	A	0.05	310	A	0.05	310
41	B	0.26	185	B	0.27	188	B	0.2	333	B	0.19	333	B	0.11	333	B	0.14	333	B	0.11	333	B	0.12	333
42	A	0.2	52	A	0.21	52	A	0.14	52	A	0.11	52	A	0.06	52	A	0.06	52	A	0.06	52	A	0.08	52

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Table 109 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
43	A 0.28 246	A 0.31 244	B 0.26 394	B 0.24 394	B 0.16 394	B 0.17 394	B 0.14 394	B 0.11 394
44	B 0.2 214	B 0.25 216	B 0.18 364	B 0.16 364	B 0.11 364	B 0.12 364	B 0.1 364	B 0.08 364
45	B 0.18 184	B 0.22 182	B 0.16 330	B 0.14 330	B 0.08 330	B 0.1 330	B 0.09 330	B 0.08 330
46	B 0.17 173	B 0.23 174	B 0.16 190	B 0.12 189	B 0.08 189	B 0.08 190	B 0.07 190	B 0.09 189
47	A 0.23 115	A 0.29 115	A 0.23 115	A 0.2 115	A 0.14 115	A 0.14 115	A 0.12 115	A 0.11 115
48	B 0.2 221	B 0.26 222	B 0.2 402	B 0.19 402	B 0.12 402	B 0.12 402	B 0.11 402	B 0.11 402
49	A 0.16 146	A 0.2 146	A 0.16 144	A 0.13 146	A 0.06 146	A 0.08 144	A 0.07 146	A 0.06 146
50	A 0.19 116	A 0.26 116	A 0.18 116	A 0.15 116	A 0.09 116	A 0.1 116	A 0.08 116	A 0.08 116
51	A 0.19 126	A 0.25 126	A 0.19 126	A 0.16 126	A 0.09 126	A 0.09 126	A 0.09 126	A 0.06 126
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
56	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
66	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
67	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
68	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 109 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
71	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	A	0.04	233	A	0.08	233	A	0.04	233	A	0.03	233	A	0.02	233	A	0.02	233	A	0.02	233	A	0.03	233
74	B	0.05	231	B	0.09	231	B	0.04	231	B	0.04	231	B	0.02	231	B	0.01	231	B	0.02	231	B	0.03	231
75	A	0.05	248	A	0.09	248	A	0.04	248	A	0.03	248	A	0.02	248	A	0.02	248	A	0.02	248	A	0.03	248
76	A	0.05	280	A	0.09	280	A	0.05	280	A	0.04	280	A	0.02	280	A	0.02	280	A	0.02	280	A	0.03	280
77	A	0.05	267	A	0.09	267	A	0.04	267	A	0.04	267	A	0.03	267	A	0.02	267	A	0.02	267	A	0.02	267
78	B	0.08	442	B	0.1	442	B	0.07	442	B	0.05	442	B	0.03	442	B	0.03	442	B	0.04	442	B	0.02	442
79	A	0.06	297	A	0.1	297	A	0.05	297	A	0.04	297	A	0.03	297	A	0.03	297	A	0.02	297	A	0.03	297
80	A	0.06	284	A	0.09	284	A	0.04	284	A	0.04	284	A	0.02	284	A	0.03	284	A	0.03	284	A	0.02	284
81	A	0.12	50	A	0.15	50	A	0.1	50	A	0.08	50	A	0.05	50	A	0.05	50	A	0.05	50	A	0.06	50
82	A	0.18	213	A	0.23	211	B	0.21	361	B	0.2	361	B	0.12	361	B	0.14	361	B	0.12	361	B	0.09	361
83	A	0.18	244	A	0.24	242	B	0.21	392	B	0.19	392	B	0.12	392	B	0.14	392	B	0.12	392	B	0.08	392
84	A	0.16	185	A	0.2	185	A	0.16	201	A	0.14	201	A	0.09	201	A	0.09	201	A	0.09	201	A	0.08	201
85	A	0.25	276	A	0.34	274	B	0.29	424	B	0.29	424	B	0.2	424	B	0.22	424	B	0.17	424	B	0.12	424
86	A	0.13	136	A	0.2	136	A	0.15	136	A	0.11	136	A	0.08	136	A	0.06	134	A	0.08	134	A	0.06	136
87	A	0.19	272	A	0.25	271	B	0.23	465	B	0.2	466	B	0.12	466	B	0.14	466	B	0.12	466	B	0.08	466
88	A	0.14	200	A	0.19	200	B	0.16	316	B	0.12	316	B	0.08	316	B	0.08	316	B	0.08	316	B	0.08	316
89	A	0.14	198	A	0.19	200	A	0.15	224	A	0.12	222	A	0.06	222	A	0.08	224	A	0.08	222	A	0.06	222
90	B	0.19	396	B	0.25	396	B	0.22	456	B	0.2	456	B	0.14	456	B	0.14	456	B	0.12	456	B	0.09	456
91	A	0.02	32	A	0.05	40	A	0.01	40	A	0.01	40	A	0.02	40	A	0.	40	A	0.	40	A	0.	40
92	A	0.15	70	A	0.08	70	A	0.04	89	A	0.02	89	A	0.02	89	A	0.	89	A	0.	89	A	0.02	89
93	A	0.06	89	A	0.1	89	A	0.04	103	A	0.02	103	A	0.	103	A	0.02	103	A	0.	103	A	0.	103
94	A	0.04	206	A	0.08	226	A	0.03	226	A	0.01	226	A	0.02	226	A	0.	226	A	0.	226	A	0.	226
95	A	0.07	123	A	0.1	123	A	0.05	152	A	0.02	152	A	0.02	152	A	0.	152	A	0.	152	A	0.	152
96	A	0.04	302	A	0.08	324	A	0.03	324	A	0.01	324	A	0.	324	A	0.	324	A	0.	324	A	0.02	324
97	A	0.06	131	A	0.1	131	A	0.05	131	A	0.02	131	A	0.	131	A	0.02	131	A	0.	131	A	0.	131
98	A	0.04	88	A	0.08	88	A	0.05	88	A	0.03	88	A	0.02	88	A	0.02	88	A	0.01	88	A	0.02	88

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Table 109 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
99	B	0.07	222	A	0.11	186	A	0.07	186	A	0.05	186	A	0.03	186	A	0.02	186	A	0.01	186	A	0.02	186
100	B	0.08	1481	B	0.12	1356	B	0.09	1356	B	0.06	1356	B	0.03	1356	B	0.05	1356	B	0.02	1356	B	0.03	1356
101	A	0.07	297	B	0.1	571	B	0.06	571	B	0.02	571	B	0.02	571	B	0.02	571	B	0.01	571	B	0.	571
102	B	0.08	1408	B	0.12	1288	B	0.07	1288	B	0.04	1288	B	0.02	1288	B	0.03	1288	B	0.01	1288	B	0.02	1288
103	A	0.06	125	A	0.1	121	A	0.06	121	A	0.02	121	A	0.02	121	A	0.02	121	A	0.01	121	A	0.02	121
104	A	0.06	159	A	0.1	159	A	0.06	159	A	0.02	159	A	0.02	159	A	0.02	159	A	0.01	159	A	0.02	159
105	B	0.41	913	B	0.46	913	B	0.37	2557	B	0.38	2557	B	0.27	2557	B	0.32	2557	B	0.24	2557	B	0.3	2557
106	B	0.84	2806	B	0.95	2806	B	0.8	7912	B	0.82	7912	B	0.68	7912	B	0.78	7912	B	0.66	7912	B	1.18	7912
107	B	0.54	2523	B	0.62	2523	B	0.45	7179	B	0.47	7179	B	0.4	7179	B	0.44	7179	B	0.37	7179	B	0.62	7179
108	B	0.3	1514	B	0.37	1512	B	0.29	4368	B	0.28	4368	B	0.19	4364	B	0.22	4364	B	0.2	4364	B	0.2	4364
109	B	0.45	1583	B	0.54	1583	B	0.43	4498	B	0.45	4498	B	0.31	4498	B	0.32	4498	B	0.29	4498	B	0.25	4498
110	B	0.32	837	B	0.36	837	B	0.32	837	B	0.33	837	B	0.22	837	B	0.23	837	B	0.21	837	B	0.17	837
111	B	0.25	1209	B	0.32	1209	B	0.27	1209	B	0.24	1209	B	0.17	1209	B	0.21	1209	B	0.18	1209	B	0.14	1209
112	B	0.24	1781	B	0.31	1781	B	0.26	1797	B	0.23	1797	B	0.17	1797	B	0.19	1797	B	0.18	1797	B	0.22	1797
113	A	0.04	236	A	0.07	236	A	0.03	236	A	0.02	236	A	0.04	236	A	0.02	236	A	0.02	236	A	0.03	237
114	B	0.05	500	B	0.08	500	B	0.04	500	B	0.03	500	B	0.02	500	B	0.03	500	B	0.03	500	B	0.03	500
115	B	0.13	1285	B	0.14	1285	B	0.09	1285	B	0.08	1285	B	0.05	1285	B	0.1	1285	B	0.08	1285	B	0.06	1285
116	B	0.11	993	B	0.16	993	B	0.11	993	B	0.12	993	B	0.09	993	B	0.1	993	B	0.08	993	B	0.11	993
117	B	0.1	839	B	0.13	839	B	0.11	839	B	0.08	839	B	0.06	839	B	0.05	839	B	0.04	839	B	0.06	839
118	B	0.11	1874	B	0.14	1874	B	0.1	1874	B	0.11	1874	B	0.08	1874	B	0.08	1838	B	0.07	1838	B	0.11	1838
119	B	0.37	1705	B	0.43	1707	B	0.33	1705	B	0.33	1705	B	0.22	1707	B	0.25	1705	B	0.23	1707	B	0.3	1707
120	C	0.45	2295	C	0.52	2295	C	0.43	2295	C	0.42	2295	C	0.33	2295	C	0.36	2295	C	0.31	2295	C	0.39	2295
121	C	0.29	1948	C	0.34	1949	C	0.27	1956	C	0.24	1957	C	0.15	1957	C	0.19	1956	C	0.17	1957	C	0.2	1957
122	B	0.35	2050	B	0.43	2050	B	0.35	2050	B	0.34	2050	B	0.23	2050	B	0.26	2050	B	0.24	2050	B	0.33	2050
123	B	0.31	1735	B	0.38	1736	B	0.3	1735	B	0.29	1735	B	0.19	1736	B	0.21	1735	B	0.19	1736	B	0.22	1736
124	B	0.27	501	B	0.33	501	B	0.26	501	B	0.23	501	B	0.19	501	B	0.19	501	B	0.17	501	B	0.14	501
125	C	0.38	3854	C	0.46	3854	C	0.38	3870	C	0.37	3870	C	0.27	3870	C	0.33	3870	C	0.28	3870	C	0.31	3870
126	B	0.5	1345	B	0.61	1343	B	0.53	1361	B	0.57	1361	B	0.42	1359	B	0.46	1359	B	0.38	1359	B	0.17	1359

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Table 109 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
127	B 0.28 1822	B 0.35 1822	B 0.26 1838	B 0.26 1838	B 0.17 1838	B 0.2 1838	B 0.18 1838	B 0.19 1838
128	C 0.29 394	C 0.3 394	C 0.25 394	C 0.26 394	C 0.14 394	C 0.16 394	C 0.13 394	C 0.16 394
129	A 0.32 144	A 0.28 144	A 0.22 144	A 0.22 144	A 0.11 144	A 0.11 144	A 0.1 144	A 0.09 144
130	C 0.24 139	C 0.27 139	C 0.22 139	C 0.21 139	C 0.11 139	C 0.12 139	C 0.1 139	C 0.08 139
131	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
132	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
133	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
134	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
135	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
136	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
137	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
138	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
139	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
140	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
141	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
142	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
143	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
144	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
145	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
146	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
147	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
148	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
149	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
150	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
151	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
152	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
153	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
154	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

Continued on next page

Table 109 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
155	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
156	B 0.04 319	B 0.08 319	B 0.04 319	B 0.03 319	B 0.03 319	B 0.03 319	B 0.02 319	B 0.03 319
157	B 0.05 437	B 0.09 437	B 0.05 437	B 0.04 437	B 0.02 437	B 0.03 437	B 0.03 437	B 0.03 437
158	B 0.05 434	B 0.09 434	B 0.04 434	B 0.04 434	B 0.02 434	B 0.02 434	B 0.02 434	B 0.03 434
159	B 0.05 297	B 0.09 297	B 0.04 297	B 0.03 297	B 0.02 297	B 0.02 297	B 0.02 297	B 0.02 298
160	B 0.05 733	B 0.1 733	B 0.05 733	B 0.05 733	B 0.03 733	B 0.03 733	B 0.03 733	B 0.03 733
161	B 0.05 418	B 0.09 418	B 0.04 418	B 0.04 418	B 0.03 418	B 0.02 418	B 0.02 418	B 0.03 418
162	B 0.05 634	B 0.09 634	B 0.04 634	B 0.04 634	B 0.03 634	B 0.03 634	B 0.02 634	B 0.03 634
163	B 0.05 761	B 0.09 761	B 0.04 761	B 0.04 761	B 0.03 761	B 0.02 761	B 0.02 761	B 0.03 761
164	B 0.07 2215	B 0.11 2215	B 0.08 2215	B 0.06 2215	B 0.04 2215	B 0.03 2179	B 0.05 2179	B 0.06 2179
165	C 0.22 275	C 0.26 275	C 0.2 286	C 0.18 286	C 0.12 286	C 0.12 286	C 0.15 286	C 0.09 286
166	C 0.3 1204	C 0.36 1205	C 0.31 1205	C 0.31 1204	C 0.23 1205	C 0.22 1205	C 0.22 1205	C 0.14 1205
167	B 0.39 2778	B 0.47 2778	B 0.39 2778	B 0.37 2778	B 0.34 2778	B 0.36 2778	B 0.32 2778	B 0.47 2778
168	B 0.28 2040	B 0.34 2040	B 0.26 2040	B 0.24 2040	B 0.2 2040	B 0.22 2040	B 0.2 2040	B 0.26 2040
169	B 0.25 1921	B 0.31 1921	B 0.24 1921	B 0.21 1921	B 0.17 1921	B 0.19 1921	B 0.18 1921	B 0.23 1921
170	C 0.26 1972	C 0.32 1972	C 0.25 1972	C 0.85 1972	C 0.18 1972	C 0.19 1972	C 0.17 1972	C 0.2 1972
171	B 0.31 1014	B 0.37 1014	B 0.31 1014	B 0.3 1014	B 0.23 1014	B 0.24 1014	B 0.21 1014	B 0.16 1014
172	B 0.23 732	B 0.28 734	B 0.22 732	B 0.15 734	B 0.14 734	B 0.16 732	B 0.15 732	B 0.12 732
173	C 0.36 986	C 0.43 986	C 0.42 986	C 0.29 986	C 0.28 986	C 0.3 986	C 0.25 986	C 0.14 986
174	B 0.22 502	B 0.28 498	B 0.24 502	B 0.2 498	B 0.15 502	B 0.16 502	B 0.15 498	B 0.12 502
175	B 0.47 1335	B 0.56 1333	B 0.53 1351	B 0.45 1351	B 0.43 1349	B 0.42 1349	B 0.36 1351	B 0.17 1349
176	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
177	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.108 4_Trig_functions\4.3aSecant\4.3.1.3(dsin)ⁿ(a+bsec)^m

Table 110: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.08	129	A	0.08	129	A	0.04	129	A	0.06	129	A	0.	129	A	0.01	129	A	0.	129	A	0.	129
2	A	0.07	95	A	0.08	95	A	0.03	95	A	0.01	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95
3	A	0.02	28	A	0.06	28	A	0.02	27	A	0.01	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27
4	A	0.09	80	A	0.12	80	A	0.08	104	A	0.04	104	A	0.01	104	A	0.	104	A	0.	104	A	0.	104
5	A	0.08	130	A	0.08	130	A	0.04	130	A	0.01	130	A	0.	130	A	0.	130	A	0.	130	A	0.	130
6	A	0.09	85	A	0.14	85	A	0.09	181	A	0.01	181	A	0.01	181	A	0.	181	A	0.	181	A	0.	181
7	A	0.09	210	A	0.09	210	A	0.04	210	A	0.01	210	A	0.01	210	A	0.	210	A	0.	210	A	0.02	210
8	A	0.04	86	A	0.08	86	A	0.03	86	A	0.01	86	A	0.01	86	A	0.	86	A	0.	86	A	0.	86
9	A	0.14	202	A	0.12	210	A	0.08	210	A	0.02	210	A	0.01	210	A	0.	210	A	0.	210	A	0.	210
10	A	0.12	264	A	0.3	272	A	0.1	272	A	0.02	272	A	0.01	272	A	0.02	272	A	0.01	272	A	0.	272
11	A	0.07	235	A	0.1	235	A	0.06	235	A	0.01	235	A	0.01	235	A	0.	235	A	0.	235	A	0.02	235
12	A	0.1	274	A	0.15	282	A	0.11	282	A	0.02	282	A	0.01	282	A	0.	282	A	0.	282	A	0.	282
13	B	0.1	360	B	0.16	368	B	0.11	368	B	0.02	368	B	0.01	368	B	0.01	368	B	0.	368	B	0.	368
14	A	0.07	30	A	0.11	30	A	0.06	29	A	0.02	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
15	A	0.06	54	A	0.1	54	A	0.06	54	A	0.05	54	A	0.02	54	A	0.02	54	A	0.01	54	A	0.02	54
16	A	0.08	108	A	0.12	108	A	0.07	108	A	0.03	108	A	0.02	108	A	0.01	108	A	0.01	108	A	0.02	108
17	A	0.09	140	A	0.13	140	A	0.08	140	A	0.03	140	A	0.01	140	A	0.	140	A	0.	140	A	0.	140
18	A	0.14	79	A	0.19	79	A	0.13	79	A	0.02	79	A	0.	79	A	0.	79	A	0.	79	A	0.	79
19	A	0.07	72	A	0.12	72	A	0.07	72	A	0.03	72	A	0.02	72	A	0.02	72	A	0.01	72	A	0.	72
20	A	0.08	57	A	0.13	57	A	0.08	57	A	0.03	57	A	0.02	57	A	0.02	57	A	0.01	57	A	0.	57
21	A	0.1	103	A	0.16	101	A	0.1	101	A	0.04	101	A	0.02	101	A	0.02	101	A	0.01	101	A	0.	101
22	A	0.1	126	A	0.14	126	A	0.09	126	A	0.03	126	A	0.02	126	A	0.	126	A	0.01	126	A	0.	126
23	A	0.08	60	A	0.13	60	A	0.08	60	A	0.03	60	A	0.01	60	A	0.	60	A	0.	60	A	0.	60
24	A	0.08	290	A	0.14	290	A	0.06	290	A	0.45	290	A	0.04	290	A	0.05	290	A	0.04	290	A	0.05	286
25	A	0.08	212	A	0.16	212	A	0.08	212	A	0.06	212	A	0.06	212	A	0.05	212	A	0.05	212	A	0.05	210
26	A	0.1	389	A	0.17	389	A	0.08	389	A	0.07	389	A	0.07	389	A	0.08	389	A	0.06	389	A	0.08	385
27	A	0.07	138	A	0.13	138	A	0.05	138	A	0.06	138	A	0.02	138	A	0.03	138	A	0.04	138	A	0.03	136

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Table 110 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0.07 147	A 0.14 147	A 0.05 147	A 0.04 147	A 0.03 147	A 0.03 147	A 0.04 147	A 0.03 145
29	A 0.07 184	A 0.14 184	A 0.05 184	A 0.04 184	A 0.03 184	A 0.03 184	A 0.04 184	A 0.03 182
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	A 0.02 28	A 0.06 28	A 0.02 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
38	A 0.04 35	A 0.08 35	A 0.03 35	A 0.01 35	A 0.01 35	A 0.02 35	A 0. 35	A 0. 35
39	A 0.06 266	A 0.1 266	A 0.06 266	A 0.01 266	A 0.01 266	A 0. 266	A 0. 266	A 0.02 266
40	A 0.02 65	A 0.06 65	A 0.04 65	A 0.01 65	A 0. 65	A 0. 65	A 0. 65	A 0. 65
41	A 0.09 276	A 0.1 276	A 0.06 276	A 0.01 276	A 0.01 276	A 0. 276	A 0. 276	A 0. 276
42	A 0.08 121	A 0.12 121	A 0.08 121	A 0.03 121	A 0.02 121	A 0.03 121	A 0.01 121	A 0.02 121
43	A 0.07 106	A 0.12 106	A 0.07 106	A 0.03 106	A 0.03 106	A 0.01 106	A 0.01 106	A 0. 106
44	A 0.09 224	A 0.14 224	A 0.09 224	A 0.03 224	A 0.03 224	A 0.03 224	A 0.01 224	A 0.02 224
45	B 0.08 883	B 0.13 1097	B 0.08 1097	B 0.04 1097	B 0.03 1097	B 0.03 1097	B 0.02 1097	B 0.02 1097
46	A 0.08 162	A 0.14 229	A 0.09 229	A 0.04 229	A 0.03 229	A 0.03 229	A 0.01 229	A 0.02 229
47	A 0.08 355	A 0.13 355	A 0.07 355	A 0.02 355	A 0.02 355	A 0.01 355	A 0.01 355	A 0.02 355
48	A 0.1 322	A 0.15 322	A 0.1 322	A 0.04 322	A 0.03 322	A 0.03 322	A 0.01 322	A 0.02 322
49	A 0.12 427	A 0.17 427	A 0.1 427	A 0.04 427	A 0.03 427	A 0.03 427	A 0.02 427	A 0.02 427
50	B 0.11 1132	B 0.19 1132	B 0.1 1132	B 0.12 1132	B 0.08 1132	B 0.08 1132	B 0.07 1132	B 0.09 1129
51	B 0.09 919	B 0.18 919	B 0.09 919	B 0.06 919	B 0.08 919	B 0.08 919	B 0.07 919	B 0.09 907
52	B 0.3 850	B 0.38 850	B 0.34 2499	B 0.33 2499	B 0.23 2499	B 0.23 2499	B 0.2 2499	B 0.17 2499
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	C 0.23 304	C 0.22 294	C 0.19 893	C 0.17 893	C 0.11 859	C 0.12 893	C 0.13 893	C 0.11 859

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Table 110 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	C 0.25 1587	C 0.25 1539	C 0.22 1583	C 0.17 1587	C 0.16 1539	C 0.16 1587	C 0.15 1539	C 0.11 1539
57	C 0.21 1613	C 0.24 1565	C 0.19 1613	C 0.15 1613	C 0.14 1565	C 0.12 1613	C 0.14 1613	C 0.12 1565
58	C 0.25 783	C 0.27 763	C 0.21 783	C 0.19 783	C 0.14 763	C 0.12 783	C 0.16 763	C 0.12 763
59	C 0.21 579	C 0.28 563	C 0.23 579	C 0.16 579	C 0.16 563	C 0.16 579	C 0.14 579	C 0.11 563
60	C 0.25 637	C 0.3 621	C 0.29 1509	C 0.19 1509	C 0.16 1469	C 0.17 1510	C 0.14 1469	C 0.11 1469
61	C 0.23 579	C 0.29 563	C 0.27 579	C 0.17 579	C 0.17 563	C 0.17 579	C 0.15 579	C 0.11 563
62	C 0.22 228	C 0.25 224	C 0.21 228	C 0.16 228	C 0.12 224	C 0.12 228	C 0.13 228	C 0.09 224

2.109 $4_Trig_functions\4.3aSecant\4.3.1.4(dtan)^n(a+bsec)^m$

Table 111: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.05 216	A 0.09 216	A 0.04 216	A 0.01 216	A 0.01 216	A 0. 216	A 0. 216	A 0. 216
2	A 0.04 161	A 0.09 161	A 0.04 161	A 0.01 161	A 0.01 161	A 0.02 161	A 0. 161	A 0. 161
3	A 0.01 25	A 0.05 25	A 0.01 25	A 0. 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
4	A 0.09 93	A 0.14 93	A 0.08 134	A 0.01 134	A 0.01 134	A 0. 134	A 0. 134	A 0.02 134
5	A 0.05 178	A 0.1 178	A 0.04 178	A 0.01 178	A 0.01 178	A 0. 178	A 0. 178	A 0.02 178
6	A 0.1 87	A 0.15 87	B 0.09 174	B 0.01 174	B 0.01 174	B 0. 174	B 0. 174	B 0. 174
7	A 0.1 122	A 0.16 122	A 0.09 231	A 0.01 231	A 0.01 231	A 0. 231	A 0. 231	A 0.02 231
8	A 0.06 226	A 0.1 226	A 0.05 226	A 0.01 226	A 0.01 226	A 0.02 226	A 0. 226	A 0.02 226
9	A 0.05 50	A 0.1 58	A 0.07 58	A 0.01 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58
10	A 0.14 188	A 0.16 188	A 0.11 206	A 0.02 206	A 0. 206	A 0. 206	A 0. 206	A 0. 206
11	A 0.16 231	A 0.18 231	A 0.12 255	A 0.02 255	A 0. 255	A 0.02 255	A 0. 255	A 0.02 255
12	A 0.09 51	A 0.14 51	B 0.1 133	B 0.01 133	B 0.01 133	B 0.02 133	B 0. 133	B 0. 133
13	A 0.06 193	A 0.1 193	A 0.05 193	A 0.01 193	A 0.01 193	A 0.02 193	A 0. 193	A 0.02 193
14	B 0.16 425	B 0.18 425	B 0.14 479	B 0.02 479	B 0. 479	B 0. 479	B 0. 479	B 0. 479

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Table 111 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
15	A	0.02	33	A	0.06	33	A	0.02	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.	33	A	0.	33
16	A	0.08	90	A	0.12	90	A	0.07	90	A	0.02	90	A	0.02	90	A	0.02	90	A	0.01	90	A	0.	90
17	B	0.12	312	B	0.17	312	B	0.12	312	B	0.02	312	B	0.02	312	B	0.02	312	B	0.01	312	B	0.02	312
18	A	0.09	144	A	0.14	144	A	0.08	144	A	0.03	144	A	0.02	144	A	0.02	144	A	0.01	144	A	0.02	144
19	B	0.09	185	B	0.14	185	B	0.09	185	B	0.02	185	B	0.02	185	B	0.02	185	B	0.01	185	B	0.	185
20	B	0.08	102	B	0.13	102	B	0.08	102	B	0.02	102	B	0.02	102	B	0.01	102	B	0.01	102	B	0.	102
21	A	0.13	127	A	0.19	127	A	0.13	128	A	0.02	128	A	0.02	128	A	0.	128	A	0.01	128	A	0.	128
22	B	0.1	144	B	0.15	144	B	0.11	144	B	0.02	144	B	0.02	144	B	0.02	144	B	0.01	144	B	0.02	144
23	C	0.23	1390	C	0.26	1414	C	0.2	1390	C	0.18	1390	C	0.13	1414	C	0.14	1390	C	0.13	1414	C	0.09	1414
24	C	0.23	1480	C	0.26	1504	C	0.2	4304	C	0.21	4304	C	0.12	4376	C	0.12	4304	C	0.12	4376	C	0.09	4376
25	C	0.21	655	C	0.27	665	C	0.2	2480	C	0.16	2480	C	0.12	2520	C	0.12	2480	C	0.11	2520	C	0.09	2520
26	C	0.24	698	C	0.29	708	C	0.23	2561	C	0.15	2561	C	0.13	2601	C	0.14	2561	C	0.12	2601	C	0.12	2601
27	B	0.19	359	B	0.25	359	A	0.07	240	A	0.05	240	A	0.03	240	A	0.03	240	A	0.03	240	A	0.02	240
28	B	0.19	267	B	0.26	267	B	0.09	574	B	0.04	574	B	0.04	574	B	0.03	574	B	0.04	574	B	0.03	574
29	B	0.18	317	B	0.24	317	B	0.24	317	B	0.17	317	B	0.14	317	B	0.12	317	B	0.12	317	B	0.09	317
30	B	0.43	573	B	0.54	573	B	0.59	917	B	0.4	917	B	0.41	917	B	0.42	917	B	0.31	917	B	0.17	917
31	B	0.26	502	B	0.36	502	B	0.1	552	B	0.23	518	B	0.23	518	B	0.22	518	B	0.18	518	B	0.16	518
32	B	0.23	656	B	0.3	656	B	0.33	656	B	0.2	656	B	0.19	656	B	0.19	656	B	0.16	656	B	0.14	656
33	B	0.13	300	B	0.19	300	B	0.15	300	B	0.1	300	B	0.09	300	B	0.09	300	B	0.09	300	B	0.08	300
34	A	0.14	113	B	0.19	115	A	0.16	113	A	0.09	113	B	0.07	115	A	0.06	113	A	0.07	113	B	0.06	115
35	B	0.21	500	B	0.28	500	A	0.07	304	A	0.03	304	A	0.03	304	A	0.03	304	A	0.03	304	A	0.02	304
36	B	0.21	376	B	0.3	376	B	0.09	440	B	0.18	390	B	0.18	390	B	0.17	390	B	0.14	390	B	0.11	390
37	B	0.14	155	B	0.2	155	B	0.06	167	B	0.03	167	B	0.02	167	B	0.02	167	B	0.02	167	B	0.02	167
38	A	0.02	45	A	0.06	45	A	0.02	45	A	0.01	45	A	0.01	45	A	0.02	45	A	0.01	45	A	0.02	45
39	B	0.25	514	B	0.33	514	B	0.09	848	B	0.18	650	B	0.2	650	B	0.19	650	B	0.15	650	B	0.09	650
40	B	0.1	154	B	0.16	154	B	0.06	244	B	0.03	244	B	0.03	244	B	0.02	244	B	0.03	244	B	0.02	244
41	B	0.14	302	B	0.2	302	B	0.22	302	B	0.11	302	B	0.09	302	B	0.09	302	B	0.08	302	B	0.09	302
42	B	0.12	724	B	0.18	724	B	0.15	724	B	0.09	724	B	0.08	724	B	0.08	724	B	0.08	724	B	0.06	724

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Table 111 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
43	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
45	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
46	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
48	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
49	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
52	C	0.21	284	C	0.24	289	C	0.17	816	C	0.12	816	C	0.09	833	C	0.1	816	C	0.08	833	C	0.09	831
53	C	0.24	1405	C	0.29	1433	C	0.23	4233	C	0.15	4233	C	0.14	4297	C	0.12	4225	C	0.12	4297	C	0.09	4305
54	C	0.26	360	C	0.31	367	C	0.26	882	C	0.15	882	C	0.11	901	C	0.11	876	C	0.1	901	C	0.08	895
55	A	0.01	25	A	0.05	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
56	A	0.04	127	A	0.09	127	A	0.04	127	A	0.01	127	A	0.01	127	A	0.	127	A	0.	127	A	0.	127
57	A	0.05	162	A	0.1	162	A	0.06	180	A	0.01	180	A	0.	180	A	0.	180	A	0.	180	A	0.	180
58	A	0.06	108	A	0.1	108	A	0.06	108	A	0.01	108	A	0.01	108	A	0.01	108	A	0.	108	A	0.02	108
59	A	0.04	49	A	0.09	57	A	0.04	57	A	0.01	57	A	0.	57	A	0.	57	A	0.	57	A	0.02	57
60	A	0.05	111	A	0.1	111	A	0.06	117	A	0.01	117	A	0.	117	A	0.	117	A	0.	117	A	0.	117
61	A	0.06	154	A	0.1	154	A	0.06	166	A	0.01	166	A	0.	166	A	0.	166	A	0.	166	A	0.	166
62	A	0.08	460	A	0.12	460	A	0.06	460	A	0.02	460	A	0.02	460	A	0.02	460	A	0.01	460	A	0.	460
63	A	0.06	80	A	0.12	80	A	0.07	80	A	0.03	80	A	0.02	80	A	0.02	80	A	0.01	80	A	0.	80
64	B	0.07	374	B	0.12	374	B	0.08	374	B	0.04	374	B	0.04	374	B	0.03	374	B	0.02	374	B	0.02	374
65	A	0.08	141	A	0.13	141	A	0.08	141	A	0.03	141	A	0.02	141	A	0.02	141	A	0.01	141	A	0.02	141
66	B	0.28	1801	B	0.33	1830	B	0.27	5425	B	0.2	5425	B	0.19	5510	B	0.19	5425	B	0.16	5506	B	0.14	5506
67	B	0.34	16178	B	0.38	16410	B	0.31	49446	B	0.24	49446	B	0.23	50142	B	0.24	49446	B	0.21	50142	B	0.31	50142
68	B	0.27	828	B	0.45	828	B	0.08	618	B	0.2	1891	B	0.19	1891	B	0.19	1891	B	0.16	1891	B	0.19	1891
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 111 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
71	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.110 $4_Trig_functions\backslash 4.3aSecant\backslash 4.3.2.1(a+bsec)^m(c+dsec)^n$

Table 112: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.03	161	A	0.07	171	A	0.03	171	A	0.01	171	A	0.01	171	A	0.	171	A	0.	171	A	0.02	171
2	A	0.1	90	A	0.15	90	A	0.1	90	A	0.03	90	A	0.02	90	A	0.01	90	A	0.01	90	A	0.02	90
3	A	0.12	89	A	0.18	89	A	0.12	89	A	0.02	89	A	0.02	89	A	0.02	89	A	0.01	89	A	0.	89
4	A	0.02	93	A	0.06	120	B	0.02	138	B	0.	138	B	0.	138	B	0.	138	B	0.	138	B	0.	138
5	A	0.1	137	A	0.15	137	A	0.1	137	A	0.04	137	A	0.02	137	A	0.02	137	A	0.01	137	A	0.	137
6	A	0.14	111	A	0.2	111	A	0.13	111	A	0.03	111	A	0.02	111	A	0.02	111	A	0.01	111	A	0.02	111
7	A	0.13	207	A	0.19	207	A	0.15	207	A	0.04	207	A	0.02	207	A	0.02	207	A	0.01	207	A	0.02	207
8	A	0.08	130	A	0.12	130	A	0.08	130	A	0.04	130	A	0.01	130	A	0.02	130	A	0.01	130	A	0.02	130
9	A	0.09	175	A	0.13	175	A	0.09	175	A	0.04	175	A	0.02	175	A	0.	175	A	0.01	175	A	0.	175
10	A	0.08	131	A	0.12	131	A	0.08	131	A	0.04	131	A	0.02	131	A	0.02	131	A	0.	131	A	0.	131
11	A	0.09	197	A	0.14	197	A	0.09	197	A	0.04	197	A	0.02	197	A	0.02	197	A	0.01	197	A	0.02	197
12	B	0.2	214	B	0.26	214	B	0.26	214	B	0.14	214	B	0.11	214	B	0.12	214	B	0.1	214	B	0.09	214
13	B	0.17	351	B	0.23	351	B	0.21	361	B	0.1	361	B	0.08	361	B	0.08	361	B	0.07	361	B	0.06	361
14	B	0.27	395	B	0.34	395	B	0.37	415	B	0.21	415	B	0.17	415	B	0.17	415	B	0.15	415	B	0.11	415
15	B	0.22	377	B	0.31	377	B	0.31	377	B	0.16	377	B	0.14	377	B	0.12	377	B	0.11	377	B	0.08	377
16	B	0.18	376	B	0.24	377	B	0.2	376	B	0.11	376	B	0.08	376	B	0.09	376	B	0.08	376	B	0.08	376
17	B	0.36	725	B	0.47	725	B	0.48	741	B	0.3	741	B	0.29	741	B	0.3	741	B	0.23	741	B	0.11	741
18	A	0.31	194	A	0.36	195	A	0.28	214	A	0.23	214	A	0.19	215	A	0.19	214	A	0.15	215	A	0.11	215
19	A	0.23	184	A	0.29	185	A	0.23	194	A	0.14	194	A	0.13	195	A	0.12	194	A	0.11	195	A	0.06	195
20	A	0.19	149	A	0.25	150	A	0.18	151	A	0.11	151	A	0.09	152	A	0.08	151	A	0.08	150	A	0.08	152

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Table 112 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
21	A	0.18	161	A	0.24	161	A	0.19	177	A	0.12	177	A	0.09	177	A	0.09	177	A	0.09	177	A	0.08	177
22	B	0.19	235	B	0.25	237	B	0.19	251	B	0.11	251	B	0.11	253	B	0.11	251	B	0.09	253	B	0.09	253
23	B	0.19	229	B	0.25	229	B	0.21	244	B	0.12	244	B	0.11	244	B	0.09	244	B	0.1	244	B	0.06	244
24	A	0.23	353	A	0.29	353	B	0.25	368	B	0.15	368	B	0.14	368	B	0.12	368	B	0.12	368	B	0.09	368
25	A	0.22	169	A	0.28	170	A	0.21	179	A	0.14	179	A	0.12	180	A	0.11	179	A	0.1	180	A	0.08	180
26	A	0.19	93	A	0.25	93	A	0.19	103	A	0.11	103	A	0.09	103	A	0.09	103	A	0.09	103	A	0.08	103
27	B	0.18	100	B	0.23	100	B	0.17	101	B	0.1	100	B	0.07	101	B	0.08	100	B	0.07	100	B	0.05	101
28	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
29	A	0.33	294	A	0.38	295	B	0.29	923	B	0.21	924	B	0.2	923	B	0.19	924	B	0.17	924	B	0.17	923
30	B	0.14	118	B	0.19	118	B	0.13	118	B	0.07	118	B	0.05	118	B	0.05	118	B	0.05	118	B	0.05	118
31	B	2.85	203666	B	4.24	204166	B	4.73	203695	B	4.39	203695	B	6.02	204195	B	5.56	203695	B	5.48	203945	B	13.46	203945
32	B	0.23	907	B	0.31	907	B	0.3	907	B	0.16	907	B	0.11	907	B	0.11	907	B	0.11	907	B	0.11	907
33	B	0.14	194	B	0.19	194	B	0.14	285	B	0.08	285	B	0.05	285	B	0.05	285	B	0.05	285	B	0.06	285
34	B	1.55	164796	B	3.34	165160	B	2.9	218754	B	2.64	218754	B	4.01	219218	B	3.72	218754	B	3.52	218986	B	8.86	218986
35	B	0.14	824	B	0.19	824	B	0.15	824	B	0.08	824	B	0.06	824	B	0.05	824	B	0.06	824	B	0.06	824
36	B	0.33	1550	B	0.41	1568	B	0.31	3155	B	0.22	3179	B	0.22	3189	B	0.22	3154	B	0.19	3195	B	0.22	3155
37	B	0.21	189	B	0.28	189	B	0.2	195	B	0.12	195	B	0.09	195	B	0.08	195	B	0.11	195	B	0.09	195
38	B	0.21	415	B	0.28	424	B	0.22	756	B	0.12	774	B	0.11	774	B	0.11	756	B	0.11	774	B	0.11	756
39	A	0.07	113	A	0.12	113	A	0.07	113	A	0.03	113	A	0.02	113	A	0.01	113	A	0.01	113	A	0.02	113
40	B	0.14	3293	B	0.18	2944	B	0.1	2944	B	0.04	2944	B	0.03	2944	B	0.03	2944	B	0.02	2944	B	0.02	2944
41	B	0.27	443	B	0.33	443	B	0.27	1546	B	0.2	1546	B	0.17	1546	B	0.16	1546	B	0.16	1546	B	0.16	1546
42	B	0.34	5712	B	0.41	5710	B	0.31	5728	B	0.28	5728	B	0.22	5726	B	0.25	5728	B	0.21	5726	B	0.31	5726
43	B	0.72	15724	B	0.84	15724	B	0.7	15769	B	0.59	15769	B	0.68	15769	B	0.7	15769	B	0.6	15769	B	1.	15769
44	B	1.15	32283	B	1.51	32283	B	1.36	32362	B	1.19	32362	B	1.74	32362	B	1.67	32362	B	1.48	32362	B	2.95	32362
45	B	2.65	75468	B	4.42	75468	B	4.36	75581	B	4.25	75581	B	6.59	75581	B	6.23	75581	B	5.93	75581	B	15.63	75581
46	B	0.33	489	B	0.41	489	B	0.33	536	B	0.22	536	B	0.21	536	B	0.22	536	B	0.21	536	B	0.17	536
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
48	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 112 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
49	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.111 $4_Trig_functions\backslash 4.3aSecant\backslash 4.3.2.3(gsec)^p(a+bsec)^m(c+dsec)^n$

Table 113: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
1	A	0.02	84	A	0.06	94	A	0.02	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94
2	A	0.13	63	A	0.18	63	A	0.11	63	A	0.02	63	A	0.01	63	A	0.01	63	A	0.	63	A	0.02	63
3	A	0.04	167	A	0.07	177	A	0.03	177	A	0.	177	A	0.01	177	A	0.	177	A	0.	177	A	0.	177
4	A	0.02	75	A	0.06	77	A	0.02	77	A	0.	77	A	0.01	77	A	0.	77	A	0.	77	A	0.	77
5	A	0.1	140	A	0.15	140	A	0.1	140	A	0.04	140	A	0.02	140	A	0.02	140	A	0.01	140	A	0.	140
6	A	0.12	113	A	0.17	113	A	0.11	113	A	0.04	113	A	0.02	113	A	0.02	113	A	0.01	113	A	0.02	113
7	A	0.16	52	A	0.23	52	A	0.14	52	A	0.03	52	A	0.01	52	A	0.02	52	A	0.	52	A	0.	52
8	A	0.1	164	A	0.15	164	A	0.11	164	A	0.03	164	A	0.02	164	A	0.02	164	A	0.01	164	A	0.	164
9	A	0.08	116	A	0.13	116	A	0.08	116	A	0.03	116	A	0.02	116	A	0.02	116	A	0.01	116	A	0.	116
10	A	0.08	74	A	0.12	74	A	0.07	74	A	0.03	74	A	0.01	74	A	0.	74	A	0.	74	A	0.	74
11	B	0.08	97	B	0.12	97	B	0.08	97	B	0.05	97	B	0.04	97	B	0.02	97	B	0.02	97	B	0.16	97
12	A	0.1	111	A	0.16	111	A	0.09	111	A	0.03	111	A	0.01	111	A	0.	111	A	0.01	111	A	0.	111
13	B	0.1	141	B	0.13	141	B	0.1	141	B	0.06	141	B	0.05	141	B	0.05	141	B	0.03	141	B	0.28	141
14	A	0.08	115	A	0.13	115	A	0.07	115	A	0.03	115	A	0.01	115	A	0.	115	A	0.01	115	A	0.	115
15	A	0.16	83	A	0.21	83	A	0.16	123	A	0.1	123	A	0.09	123	A	0.09	123	A	0.08	123	A	0.08	123
16	A	0.14	73	A	0.2	73	A	0.14	103	A	0.08	103	A	0.07	103	A	0.06	103	A	0.07	103	A	0.06	103
17	A	0.19	85	A	0.25	85	A	0.2	135	A	0.12	135	A	0.11	135	A	0.11	135	A	0.1	135	A	0.09	135
18	A	0.17	75	A	0.23	75	A	0.18	115	A	0.1	115	A	0.08	115	A	0.08	115	A	0.08	115	A	0.06	115
19	A	0.2	75	A	0.25	75	A	0.2	125	A	0.12	125	A	0.1	125	A	0.09	125	A	0.09	125	A	0.06	125
20	A	0.18	65	A	0.23	65	A	0.19	105	A	0.1	105	A	0.08	105	A	0.09	105	A	0.08	105	A	0.09	105

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Table 113 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
21	A 0.17 55	A 0.23 55	B 0.18 85	B 0.1 85	B 0.08 85	B 0.06 85	B 0.08 85	B 0.08 85
22	A 0.17 83	A 0.22 83	A 0.18 103	A 0.11 103	A 0.09 103	A 0.08 103	A 0.09 103	A 0.08 103
23	B 0.17 320	B 0.23 320	B 0.25 612	B 0.11 612	B 0.07 612	B 0.08 612	B 0.07 612	B 0.06 612
24	B 0.18 82	B 0.24 82	B 0.18 102	B 0.1 102	B 0.09 102	B 0.08 102	B 0.08 102	B 0.08 102
25	A 0.18 72	A 0.23 72	B 0.18 82	B 0.1 82	B 0.08 82	B 0.08 82	B 0.08 82	B 0.08 82
26	A 0.2 103	A 0.26 103	A 0.19 143	A 0.12 143	A 0.11 143	A 0.11 143	A 0.11 143	A 0.08 143
27	B 0.18 244	B 0.24 251	B 0.19 263	B 0.11 263	B 0.1 262	B 0.09 263	B 0.1 262	B 0.08 262
28	A 0.2 103	A 0.26 103	A 0.22 103	A 0.13 103	A 0.11 103	A 0.11 103	A 0.11 103	A 0.08 103
29	A 0.2 95	A 0.25 95	A 0.18 135	A 0.12 135	A 0.1 135	A 0.09 135	A 0.1 135	A 0.08 135
30	B 0.21 286	B 0.28 289	B 0.21 299	B 0.14 299	B 0.13 301	B 0.12 299	B 0.11 301	B 0.09 301
31	B 0.2 361	B 0.26 366	B 0.21 378	B 0.12 378	B 0.12 379	B 0.11 378	B 0.11 379	B 0.09 381
32	B 0.19 115	B 0.24 116	B 0.17 115	B 0.1 115	B 0.08 116	B 0.08 115	B 0.08 116	B 0.06 116
33	A 0.18 123	A 0.24 123	B 0.19 191	B 0.1 191	B 0.07 191	B 0.08 191	B 0.08 191	B 0.05 191
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	A 0.25 294	A 0.3 294	B 0.26 334	B 0.16 334	B 0.12 334	B 0.12 334	B 0.11 334	B 0.12 334
38	A 0.07 431	B 0.12 479	B 0.07 479	B 0.01 479	B 0.01 479	B 0.02 479	B 0. 479	B 0.02 479
39	A 0.05 174	B 0.09 202	B 0.05 202	B 0. 202	B 0.01 202	B 0.01 202	B 0.01 202	B 0. 202
40	A 0.04 86	A 0.08 104	A 0.05 104	A 0. 104	A 0.01 104	A 0.02 104	A 0. 104	A 0. 104
41	A 0.06 268	A 0.1 298	A 0.06 298	A 0.01 298	A 0.01 298	A 0. 298	A 0. 298	A 0. 298
42	A 0.12 167	A 0.18 167	A 0.11 167	A 0.03 167	A 0.02 167	A 0. 167	A 0.01 167	A 0. 167
43	A 0.18 352	B 0.24 695	B 0.15 695	B 0.03 695	B 0.02 695	B 0.02 695	B 0.01 695	B 0.02 695
44	A 0.06 60	A 0.1 60	A 0.04 60	A 0.01 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60
45	A 0.11 203	A 0.16 245	A 0.11 245	A 0.04 245	A 0.02 245	A 0.03 245	A 0.01 245	A 0.02 245
46	B 0.1 454	B 0.16 454	B 0.08 454	B 0.03 454	B 0.02 454	B 0.02 454	B 0.01 454	B 0.02 454
47	B 0.24 503	B 0.31 507	B 0.22 938	B 0.15 938	B 0.12 944	B 0.14 938	B 0.13 946	B 0.11 938
48	B 0.2 167	B 0.26 170	B 0.21 173	B 0.11 176	B 0.1 176	B 0.09 173	B 0.1 176	B 0.08 173

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Table 113 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
49	B 0.23 400	B 0.29 402	B 0.24 720	B 0.14 726	B 0.11 724	B 0.11 720	B 0.11 726	B 0.09 720
50	A 0.06 431	B 0.1 479	B 0.04 479	B 0. 479	B 0.01 479	B 0.02 479	B 0.01 479	B 0.02 479
51	B 0.1 1066	B 0.14 1066	B 0.08 1066	B 0.04 1066	B 0.03 1066	B 0.03 1066	B 0.02 1066	B 0.03 1066
52	B 0.12 1249	B 0.18 1530	B 0.13 1530	B 0.05 1530	B 0.04 1530	B 0.05 1530	B 0.03 1530	B 0.03 1530
53	A 0.07 132	A 0.12 174	A 0.06 174	A 0.02 174	A 0.02 174	A 0.02 174	A 0.01 174	A 0. 174
54	A 0.32 351	A 0.37 351	B 0.28 398	B 0.19 398	B 0.17 398	B 0.17 398	B 0.18 398	B 0.14 398
55	C 0.31 465	C 0.38 465	C 0.42 465	C 0.2 465	C 0.18 465	C 0.19 465	C 0.19 465	C 0.19 465
56	C 0.26 236	C 0.32 236	C 0.27 236	C 0.18 236	C 0.13 236	C 0.14 236	C 0.14 236	C 0.12 236
57	A 0.17 49	A 0.22 49	A 0.15 49	A 0.02 49	A 0.01 49	A 0. 49	A 0.01 49	A 0.02 49
58	A 0.18 62	A 0.25 62	A 0.16 62	A 0.02 62	A 0.01 62	A 0.01 62	A 0. 62	A 0. 62

2.112 $4_Trig_functions\backslash4.3aSecant\backslash4.3.3.1(a+bsec)^m(dsec)^n(A+Bsec)$

Table 114: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	C 0.21 518	C 0.27 518	C 0.22 1405	C 0.28 1405	C 0.18 1405	C 0.19 1405	C 0.16 1405	C 0.16 1405
2	C 0.2 470	C 0.26 470	C 0.2 470	C 0.18 470	C 0.15 470	C 0.14 470	C 0.14 470	C 0.08 470
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	A 0.05 213	A 0.09 233	A 0.06 233	A 0.01 233	A 0.01 233	A 0. 233	A 0. 233	A 0.02 233
10	A 0.1 107	A 0.14 107	A 0.11 128	A 0.03 128	A 0. 128	A 0.01 128	A 0. 128	A 0. 128
11	A 0.06 235	A 0.1 255	A 0.07 255	A 0. 255	A 0.01 255	A 0. 255	A 0. 255	A 0. 255

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Table 114 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
12	A 0.11 176	A 0.16 176	A 0.12 199	A 0.03 199	A 0.01 199	A 0.02 199	A 0. 199	A 0. 199
13	A 0.12 223	A 0.17 223	A 0.13 267	A 0.04 267	A 0.01 267	A 0. 267	A 0. 267	A 0. 267
14	A 0.06 234	A 0.11 254	A 0.06 254	A 0. 254	A 0.01 254	A 0.02 254	A 0. 254	A 0.02 254
15	A 0.1 182	A 0.15 200	A 0.14 200	A 0.04 200	A 0.01 200	A 0. 200	A 0.01 200	A 0.02 200
16	B 0.07 340	B 0.11 340	B 0.08 340	B 0.03 340	B 0.02 340	B 0.03 340	B 0.01 340	B 0. 340
17	B 0.05 163	B 0.09 163	B 0.06 163	B 0.03 163	B 0.02 163	B 0.01 163	B 0.01 163	B 0.02 163
18	B 0.1 281	B 0.14 240	B 0.08 240	B 0.04 240	B 0.02 240	B 0.02 240	B 0.01 240	B 0.02 240
19	A 0.06 245	A 0.11 245	A 0.06 245	A 0.03 245	A 0.02 245	A 0.02 245	A 0.01 245	A 0. 245
20	A 0.06 64	A 0.1 64	A 0.05 64	A 0.01 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64
21	A 0.07 137	A 0.12 137	A 0.05 137	A 0.02 137	A 0.01 137	A 0.02 137	A 0.01 137	A 0. 137
22	A 0.07 88	A 0.11 88	A 0.06 88	A 0.02 88	A 0. 88	A 0.02 88	A 0. 88	A 0. 88
23	A 0.12 229	A 0.16 229	A 0.09 229	A 0.05 229	A 0.02 229	A 0.02 229	A 0.01 229	A 0.02 229
24	A 0.19 116	A 0.25 116	A 0.23 130	A 0.12 130	A 0.1 130	A 0.09 130	A 0.09 130	A 0.09 130
25	A 0.14 70	A 0.2 70	A 0.14 86	A 0.08 86	A 0.06 86	A 0.06 86	A 0.06 86	A 0.06 86
26	B 0.24 398	B 0.3 230	B 0.27 259	B 0.2 259	B 0.13 259	B 0.17 259	B 0.12 259	B 0.11 259
27	B 0.15 237	B 0.21 237	B 0.14 237	B 0.08 237	B 0.07 237	B 0.07 237	B 0.06 237	B 0.06 237
28	B 0.24 763	A 0.28 275	A 0.42 302	A 0.3 302	A 0.25 302	A 0.26 302	A 0.19 302	A 0.12 302
29	B 0.23 765	A 0.26 277	A 0.21 306	A 0.26 306	A 0.12 306	A 0.14 306	A 0.1 306	A 0.06 306
30	B 0.14 194	B 0.2 194	B 0.14 285	B 0.08 285	B 0.05 285	B 0.04 285	B 0.04 285	B 0.05 285
31	B 0.19 353	B 0.25 354	B 0.21 353	B 0.13 353	B 0.11 354	B 0.12 353	B 0.09 353	B 0.06 354
32	B 0.21 793	B 0.27 793	B 0.23 807	B 0.14 807	B 0.1 807	B 0.11 807	B 0.09 807	B 0.09 807
33	B 0.2 795	B 0.26 795	B 0.22 1165	B 0.13 1165	B 0.09 1165	B 0.1 1165	B 0.08 1165	B 0.06 1165
34	B 0.14 594	B 0.19 594	B 0.16 594	B 0.08 594	B 0.06 594	B 0.07 594	B 0.05 594	B 0.08 594
35	A 0.06 422	A 0.1 422	A 0.04 422	A 0.05 422	A 0.03 422	A 0.01 422	A 0.02 422	A 0.03 422
36	B 0.1 1299	B 0.14 1299	B 0.09 1299	B 0.09 1299	B 0.05 1299	B 0.06 1299	B 0.04 1299	B 0.06 1299
37	B 0.06 800	B 0.1 800	B 0.04 800	B 0.03 800	B 0.03 800	B 0.03 800	B 0.02 800	B 0.03 800
38	B 0.06 590	B 0.11 590	B 0.05 590	B 0.04 590	B 0.03 590	B 0.05 590	B 0.03 590	B 0.03 590
39	B 0.06 446	B 0.1 446	B 0.05 446	B 0.03 446	B 0.03 446	B 0.01 446	B 0.02 446	B 0.03 446

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Table 114 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
40	A 0.06 451	A 0.11 451	A 0.05 451	A 0.04 451	A 0.03 451	A 0.03 451	A 0.02 451	A 0.03 451
41	B 0.07 977	B 0.11 977	B 0.06 977	B 0.06 977	B 0.04 977	B 0.03 977	B 0.03 977	B 0.05 977
42	A 0.07 473	A 0.11 473	A 0.06 473	A 0.03 473	A 0.03 473	A 0.03 473	A 0.02 473	A 0.03 473
43	A 0.12 473	A 0.16 473	A 0.12 473	A 0.06 473	A 0.05 473	A 0.05 473	A 0.04 473	A 0.06 473
44	B 0.26 344	B 0.32 346	B 0.23 658	B 0.2 658	B 0.14 658	B 0.16 658	B 0.13 658	B 0.11 658
45	B 0.2 278	B 0.25 277	B 0.18 557	B 0.13 557	B 0.09 557	B 0.1 557	B 0.09 557	B 0.08 557
46	B 0.19 177	B 0.24 178	B 0.17 194	B 0.11 194	B 0.06 193	B 0.08 194	B 0.07 194	B 0.09 193
47	A 0.19 75	A 0.24 75	A 0.17 86	A 0.11 86	A 0.08 86	A 0.08 86	A 0.08 86	A 0.08 86
48	B 0.19 419	B 0.25 417	B 0.18 731	B 0.13 731	B 0.09 731	B 0.1 731	B 0.09 731	B 0.12 731
49	A 0.22 121	A 0.27 121	A 0.2 135	A 0.14 135	A 0.11 135	A 0.13 135	A 0.1 135	A 0.11 135
50	A 0.24 205	A 0.31 205	A 0.25 205	A 0.17 205	A 0.12 205	A 0.14 205	A 0.11 205	A 0.09 205
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	A 0.04 171	A 0.08 191	A 0.03 191	A 0. 191	A 0. 191	A 0. 191	A 0. 191	A 0. 191
54	A 0.05 56	A 0.09 56	A 0.05 56	A 0.02 56	A 0. 56	A 0.02 56	A 0. 56	A 0. 56
55	A 0.06 85	A 0.1 85	A 0.05 93	A 0.02 93	A 0.02 93	A 0. 93	A 0. 93	A 0. 93
56	A 0.05 312	A 0.09 342	A 0.03 342	A 0.01 342	A 0.01 342	A 0.02 342	A 0. 342	A 0. 342
57	A 0.06 114	A 0.1 114	A 0.06 122	A 0.02 122	A 0. 122	A 0. 122	A 0. 122	A 0. 122
58	A 0.06 431	B 0.1 479	B 0.04 479	B 0.01 479	B 0. 479	B 0.02 479	B 0.01 479	B 0. 479
59	A 0.07 236	A 0.12 254	A 0.09 254	A 0.02 254	A 0.02 254	A 0. 254	A 0.01 254	A 0. 254
60	A 0.08 258	A 0.12 258	A 0.07 300	A 0.02 300	A 0. 300	A 0.02 300	A 0. 300	A 0.02 300
61	A 0.06 113	A 0.12 113	A 0.06 113	A 0.03 113	A 0.02 113	A 0.02 113	A 0.01 113	A 0.02 113
62	B 0.08 510	B 0.13 619	B 0.09 619	B 0.04 619	B 0.03 619	B 0.03 619	B 0.02 619	B 0.03 619
63	B 0.13 926	B 0.17 877	B 0.11 877	B 0.06 877	B 0.03 877	B 0.03 877	B 0.02 877	B 0.02 877
64	A 0.08 236	B 0.13 354	B 0.08 354	B 0.02 354	B 0.02 354	B 0.01 354	B 0.01 354	B 0. 354
65	B 0.13 1349	B 0.17 1338	B 0.11 1338	B 0.06 1338	B 0.03 1338	B 0.03 1338	B 0.02 1338	B 0.02 1338
66	B 0.14 1552	B 0.19 1461	B 0.12 1461	B 0.06 1461	B 0.03 1461	B 0.03 1461	B 0.02 1461	B 0.02 1461
67	B 0.12 2948	B 0.16 2709	B 0.11 2709	B 0.06 2709	B 0.05 2709	B 0.05 2709	B 0.03 2709	B 0.05 2709

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Table 114 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
68	B 0.11 2264	B 0.16 1951	B 0.1 1951	B 0.05 1951	B 0.03 1951	B 0.03 1951	B 0.02 1951	B 0.03 1951
69	A 0.1 388	B 0.14 609	B 0.1 609	B 0.03 609	B 0.02 609	B 0.02 609	B 0.01 609	B 0.02 609
70	B 0.16 2891	B 0.2 2652	B 0.14 2652	B 0.07 2652	B 0.03 2652	B 0.04 2652	B 0.02 2652	B 0.03 2652
71	B 0.16 3099	B 0.2 2775	B 0.13 2775	B 0.06 2775	B 0.03 2775	B 0.04 2775	B 0.02 2775	B 0.03 2775
72	B 0.08 116	B 0.13 116	B 0.08 116	B 0.03 116	B 0.02 116	B 0.02 116	B 0.01 116	B 0.02 116
73	B 0.82 4394	B 0.94 4394	B 0.66 12598	B 0.74 12598	B 0.69 12598	B 0.77 12598	B 0.66 12598	B 1.31 12598
74	B 0.28 1372	B 0.35 1372	B 0.26 4132	B 0.18 4132	B 0.17 4132	B 0.17 4132	B 0.17 4132	B 0.14 4132
75	B 0.32 2068	B 0.41 2065	B 0.44 6110	B 0.32 6110	B 0.31 6097	B 0.33 6110	B 0.29 6110	B 0.28 6110
76	B 1.08 5368	B 1.27 5368	B 1.03 15324	B 0.98 15324	B 1.22 15324	B 1.34 15324	B 1.16 15324	B 2.48 15324
77	B 0.38 3511	B 0.49 3511	B 0.46 10495	B 0.35 10495	B 0.33 10495	B 0.4 10495	B 0.32 10495	B 0.44 10495
78	A 0.22 215	A 0.29 215	B 0.21 569	B 0.13 569	B 0.13 569	B 0.14 569	B 0.13 569	B 0.09 569
79	B 0.31 1025	B 0.39 1025	B 0.32 3030	B 0.23 3030	B 0.22 3023	B 0.24 3030	B 0.2 3023	B 0.14 3023
80	B 0.29 4213	B 0.38 4213	B 0.29 4229	B 0.19 4229	B 0.17 4229	B 0.22 4229	B 0.19 4229	B 0.26 4229
81	B 0.46 8545	B 0.56 8545	B 0.41 8561	B 0.32 8561	B 0.34 8561	B 0.39 8561	B 0.34 8561	B 0.55 8561
82	B 0.3 642	B 0.38 642	B 0.3 1848	B 0.19 1848	B 0.17 1848	B 0.19 1848	B 0.17 1848	B 0.16 1848
83	B 0.1 828	B 0.14 828	B 0.09 828	B 0.07 828	B 0.05 828	B 0.05 828	B 0.05 828	B 0.08 828
84	B 0.05 574	B 0.1 574	B 0.04 574	B 0.02 574	B 0.02 574	B 0.03 574	B 0.03 574	B 0.03 574
85	B 0.06 1328	B 0.11 1328	B 0.04 1328	B 0.03 1328	B 0.02 1328	B 0.03 1328	B 0.03 1328	B 0.05 1328
86	B 0.07 865	B 0.11 865	B 0.06 865	B 0.09 865	B 0.05 865	B 0.05 865	B 0.04 865	B 0.05 865
87	A 0.06 305	A 0.1 305	A 0.05 305	A 0.03 305	A 0.02 305	A 0.03 305	A 0.03 305	A 0.03 305
88	B 0.08 1992	B 0.12 1992	B 0.07 1992	B 0.12 1992	B 0.03 1992	B 0.05 1956	B 0.04 1956	B 0.08 1956
89	B 0.14 2351	B 0.19 2351	B 0.16 2351	B 0.09 2351	B 0.06 2351	B 0.08 2315	B 0.07 2315	B 0.09 2315
90	C 0.36 1430	C 0.44 1431	C 0.33 1430	C 0.29 1430	C 0.26 1430	C 0.25 1431	C 0.21 1431	C 0.16 1430
91	C 0.31 1549	C 0.38 1549	C 0.27 1549	C 0.2 1549	C 0.18 1549	C 0.19 1549	C 0.17 1549	C 0.17 1549
92	B 0.35 2737	B 0.43 2739	B 0.3 2737	B 0.26 2737	B 0.22 2739	B 0.25 2737	B 0.22 2739	B 0.31 2737
93	C 0.4 4258	C 0.5 4258	C 0.39 4258	C 0.38 4258	C 0.35 4258	C 0.35 4258	C 0.29 4258	C 0.45 4258
94	B 0.74 5946	B 0.96 5946	B 0.82 5946	B 0.74 5946	B 0.91 5946	B 1.03 5946	B 0.8 5946	B 1.53 5946
95	B 0.28 945	B 0.35 941	B 0.28 941	B 0.21 941	B 0.16 945	B 0.19 941	B 0.17 941	B 0.16 945

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Table 114 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
96	B 0.3 2285	B 0.37 2285	B 0.28 2285	B 0.19 2285	B 0.18 2285	B 0.19 2285	B 0.18 2285	B 0.23 2285
97	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
98	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
99	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
100	B 0.06 422	B 0.1 422	B 0.04 422	B 0.03 422	B 0.02 422	B 0.01 422	B 0.02 422	B 0.02 422
101	B 0.07 823	B 0.11 823	B 0.06 823	B 0.04 823	B 0.03 823	B 0.03 823	B 0.03 823	B 0.03 823
102	B 0.06 446	B 0.1 446	B 0.05 446	B 0.03 446	B 0.02 446	B 0.02 446	B 0.02 446	B 0.02 446
103	B 0.07 977	B 0.11 977	B 0.06 977	B 0.03 977	B 0.02 977	B 0.01 977	B 0.02 977	B 0.02 977
104	A 0.16 65	A 0.21 65	A 0.14 110	A 0.13 110	A 0.06 110	A 0.08 110	A 0.07 110	A 0.08 110
105	B 0.2 274	B 0.26 275	B 0.2 555	B 0.14 555	B 0.12 555	B 0.12 555	B 0.11 555	B 0.11 555
106	A 0.18 87	A 0.23 87	A 0.2 134	A 0.13 134	A 0.11 134	A 0.12 134	A 0.1 134	A 0.12 134
107	B 0.22 343	B 0.29 343	B 0.23 657	B 0.18 657	B 0.16 657	B 0.16 657	B 0.13 657	B 0.09 657
108	B 0.15 405	B 0.2 405	B 0.16 719	B 0.12 719	B 0.06 719	B 0.08 719	B 0.07 719	B 0.09 719
109	A 0.19 200	A 0.25 201	B 0.21 382	B 0.14 382	B 0.11 382	B 0.11 382	B 0.1 382	B 0.06 382
110	B 0.22 343	B 0.28 342	B 0.24 690	B 0.16 690	B 0.12 690	B 0.14 690	B 0.11 690	B 0.09 690
111	A 0.27 329	A 0.34 329	A 0.29 347	A 0.21 347	A 0.22 347	A 0.2 347	A 0.17 347	A 0.12 347
112	B 0.05 484	B 0.09 482	B 0.05 482	B 0.03 482	B 0.02 482	B 0.02 482	B 0.02 482	B 0.03 484
113	B 0.06 735	B 0.1 735	B 0.06 735	B 0.04 735	B 0.03 735	B 0.03 735	B 0.03 735	B 0.03 735
114	B 0.05 574	B 0.1 574	B 0.04 574	B 0.02 574	B 0.01 574	B 0.03 574	B 0.02 574	B 0.03 574
115	B 0.06 865	B 0.1 865	B 0.06 865	B 0.04 865	B 0.03 865	B 0.03 865	B 0.03 865	B 0.03 865
116	B 0.08 1119	B 0.13 1119	B 0.08 1119	B 0.05 1119	B 0.05 1119	B 0.04 1119	B 0.03 1119	B 0.05 1119
117	B 0.08 853	B 0.12 853	B 0.07 853	B 0.04 853	B 0.03 853	B 0.05 853	B 0.03 853	B 0.05 853
118	B 0.08 2351	B 0.13 2351	B 0.08 2351	B 0.04 2351	B 0.03 2351	B 0.04 2315	B 0.04 2315	B 0.05 2315
119	C 0.28 2542	C 0.36 2542	C 0.44 2573	C 0.33 2572	C 0.34 2576	C 0.36 2576	C 0.29 2572	C 0.26 2572
120	B 0.43 4837	B 0.55 4837	B 0.04 4820	B 0.45 4820	B 0.01 4820	B 0.02 4820	B 0.02 4820	B 0.02 4820
121	C 0.32 3655	C 0.4 3655	C 0.34 3600	C 0.26 3600	C 0.25 3600	C 0.25 3600	C 0.22 3599	C 0.31 3600
122	C 0.58 5382	C 0.71 5382	C 0.66 5382	C 0.55 5382	C 0.59 5382	C 0.62 5382	C 0.54 5382	C 0.87 5382
123	B 0.21 1721	B 0.27 1721	B 0.21 1721	B 0.21 1721	B 0.12 1721	B 0.12 1721	B 0.11 1721	B 0.12 1721

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Table 114 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
124	C 0.31 2729	C 0.4 2729	C 0.33 2729	C 0.27 2729	C 0.22 2729	C 0.22 2729	C 0.2 2729	C 0.26 2729
125	B 0.47 6735	B 0.57 6735	B 0.5 6757	B 0.46 6757	B 0.41 6757	B 0.48 6757	B 0.41 6757	B 0.69 6757
126	C 0.46 5185	C 0.56 5185	C 0.5 5201	C 0.44 5201	C 0.4 5201	C 0.41 5201	C 0.35 5201	C 0.39 5201
127	C 0.65 8582	C 0.77 8582	C 0.7 8598	C 0.58 8598	C 0.59 8598	C 0.64 8598	C 0.53 8598	C 0.61 8598

2.113 $4_Trig_functions\backslash4.3aSecant\backslash4.3.4.1(a+bsec)^m(A+Bsec+Csec^2)$

Table 115: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.03 78	A 0.07 96	A 0.02 124	A 0. 124	A 0. 124	A 0.02 124	A 0. 124	A 0. 124
2	A 0.03 98	A 0.07 102	A 0.02 102	A 0. 102	A 0.01 102	A 0. 102	A 0. 102	A 0. 102
3	C 0.29 413	C 0.36 413	C 0.24 413	C 0.33 413	C 0.17 413	C 0.22 413	C 0.18 404	C 0.17 404
4	C 0.24 251	C 0.3 251	C 0.26 671	C 0.23 671	C 0.21 671	C 0.21 671	C 0.17 671	C 0.11 671
5	C 0.2 636	C 0.26 636	C 0.22 636	C 0.19 636	C 0.14 636	C 0.14 636	C 0.14 636	C 0.14 636
6	C 0.25 407	C 0.32 407	C 0.22 407	C 0.22 407	C 0.18 407	C 0.2 407	C 0.17 398	C 0.22 398
7	B 0.03 47	B 0.07 51	A 0.02 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
8	A 0.02 34	B 0.06 51	A 0.02 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
9	A 0.03 72	A 0.06 82	A 0.02 82	A 0. 82	A 0. 82	A 0. 82	A 0. 82	A 0.02 82
10	A 0.05 70	A 0.09 70	A 0.04 89	A 0.02 89	A 0. 89	A 0. 89	A 0. 89	A 0. 89
11	A 0.03 130	A 0.07 142	A 0.02 142	A 0. 142	A 0.02 142	A 0. 142	A 0. 142	A 0. 142
12	A 0.03 83	A 0.07 101	A 0.02 101	A 0. 101	A 0. 101	A 0. 101	A 0. 101	A 0. 101
13	A 0.05 45	A 0.09 45	A 0.04 45	A 0.02 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
14	C 0.19 645	C 0.24 645	C 0.2 645	C 0.13 645	C 0.12 645	C 0.12 645	C 0.12 645	C 0.12 645

2.114 $4_Trig_functions\backslash4.3aSecant\backslash4.3.4.2(a+bsec)^m(dsec)^n(A+Bsec+Csec^2)$

Table 116: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
2	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
3	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
4	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
6	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
7	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 116 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
28	A	0.05	192	A	0.1	212	A	0.06	212	A	0.	212	A	0.02	212	A	0.03	212	A	0.	212	A	0.	212
29	A	0.04	108	A	0.09	126	A	0.05	126	A	0.	126	A	0.01	126	A	0.01	126	A	0.	126	A	0.	126
30	A	0.04	85	A	0.08	95	A	0.05	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95	A	0.	95
31	A	0.1	96	A	0.15	96	A	0.11	109	A	0.03	109	A	0.	109	A	0.	109	A	0.	109	A	0.02	109
32	A	0.11	142	A	0.16	142	A	0.12	156	A	0.03	156	A	0.01	156	A	0.	156	A	0.	156	A	0.02	156
33	A	0.12	160	A	0.17	160	A	0.14	195	A	0.03	195	A	0.	195	A	0.	195	A	0.	195	A	0.02	195
34	A	0.06	180	A	0.1	200	A	0.07	200	A	0.	200	A	0.01	200	A	0.01	200	A	0.	200	A	0.02	200
35	A	0.18	245	A	0.19	245	A	0.15	299	A	0.04	299	A	0.01	299	A	0.	299	A	0.	299	A	0.02	299
36	B	0.07	209	B	0.1	209	B	0.08	209	B	0.03	209	B	0.02	209	B	0.02	209	B	0.01	209	B	0.	209
37	B	0.06	121	B	0.1	121	B	0.06	121	B	0.03	121	B	0.02	121	B	0.02	121	B	0.01	121	B	0.02	121
38	A	0.06	119	A	0.11	119	A	0.06	119	A	0.02	119	A	0.01	119	A	0.01	119	A	0.01	119	A	0.	119
39	A	0.06	97	A	0.11	97	A	0.05	97	A	0.02	97	A	0.01	97	A	0.01	97	A	0.01	97	A	0.	97
40	B	0.1	322	A	0.15	248	A	0.09	248	A	0.04	248	A	0.02	248	A	0.02	248	A	0.01	248	A	0.02	248
41	A	0.09	329	A	0.13	329	A	0.1	329	A	0.03	329	A	0.02	329	A	0.02	329	A	0.01	329	A	0.02	329
42	B	0.16	216	B	0.22	216	B	0.17	216	B	0.09	216	B	0.12	216	B	0.12	216	B	0.07	216	B	0.06	216
43	A	0.19	138	A	0.25	138	A	0.19	138	A	0.12	138	A	0.13	138	A	0.12	138	A	0.09	138	A	0.08	138
44	B	0.32	569	A	0.33	241	B	0.22	269	B	0.14	269	B	0.22	269	B	0.21	269	B	0.11	269	B	0.06	269
45	B	0.24	751	A	0.27	263	A	0.26	290	A	0.18	290	A	0.25	290	A	0.25	290	A	0.14	290	A	0.08	290
46	A	0.3	152	A	0.35	152	A	0.32	166	A	0.2	166	A	0.18	166	A	0.2	166	A	0.16	166	A	0.16	166
47	A	0.23	130	A	0.28	130	A	0.24	144	A	0.15	144	A	0.12	144	A	0.14	144	A	0.11	144	A	0.09	144
48	A	0.19	108	A	0.24	108	A	0.2	122	A	0.12	122	A	0.1	122	A	0.1	122	A	0.08	122	A	0.08	122
49	B	0.17	330	B	0.23	330	B	0.18	330	B	0.1	330	B	0.11	330	B	0.12	330	B	0.08	330	B	0.06	330
50	B	0.22	752	A	0.25	264	A	0.18	292	A	0.11	292	A	0.22	292	A	0.24	292	A	0.09	292	A	0.06	292
51	B	0.3	934	A	0.3	286	A	0.34	312	A	0.24	312	A	0.32	312	A	0.32	312	A	0.16	312	A	0.09	312
52	B	0.18	434	B	0.24	434	B	0.2	434	B	0.12	434	B	0.13	434	B	0.14	434	B	0.09	434	B	0.08	434
53	B	0.23	343	B	0.29	343	B	0.24	343	B	0.16	343	B	0.14	343	B	0.16	343	B	0.13	343	B	0.11	343
54	B	0.18	594	B	0.25	594	B	0.23	776	B	0.1	776	B	0.09	776	B	0.09	776	B	0.07	776	B	0.06	776
55	B	0.2	561	B	0.26	563	B	0.22	582	B	0.13	582	B	0.11	582	B	0.14	582	B	0.09	582	B	0.08	582

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Table 116 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
56	B	0.25	1414	B	0.3	746	B	0.24	768	B	0.16	768	B	0.12	768	B	0.17	768	B	0.12	768	B	0.12	768
57	B	0.2	786	B	0.27	786	B	0.23	1156	B	0.12	1156	B	0.1	1156	B	0.1	1156	B	0.08	1156	B	0.06	1156
58	B	0.16	824	B	0.21	824	B	0.18	824	B	0.09	824	B	0.07	824	B	0.07	824	B	0.06	824	B	0.08	824
59	B	0.09	922	B	0.13	922	B	0.08	922	B	0.06	922	B	0.1	922	B	0.11	922	B	0.04	922	B	0.06	922
60	B	0.1	912	B	0.15	912	B	0.09	912	B	0.06	912	B	0.06	912	B	0.06	912	B	0.04	912	B	0.06	912
61	B	0.07	1170	B	0.12	1170	B	0.06	1170	B	0.03	1170	B	0.04	1170	B	0.04	1170	B	0.03	1170	B	0.05	1170
62	B	0.09	884	B	0.13	884	B	0.09	884	B	0.06	884	B	0.06	884	B	0.07	884	B	0.05	884	B	0.06	884
63	B	0.06	402	B	0.1	402	B	0.06	402	B	0.03	402	B	0.03	402	B	0.03	402	B	0.02	402	B	0.02	402
64	B	0.07	847	B	0.12	847	B	0.07	847	B	0.04	847	B	0.05	847	B	0.05	847	B	0.03	847	B	0.03	847
65	A	0.07	459	A	0.11	459	A	0.06	459	A	0.04	459	A	0.04	459	A	0.04	459	A	0.02	459	A	0.03	459
66	B	0.07	977	B	0.12	977	B	0.06	977	B	0.04	977	B	0.04	977	B	0.04	977	B	0.02	977	B	0.05	977
67	A	0.12	473	A	0.17	473	A	0.13	473	A	0.06	473	A	0.05	473	A	0.05	473	A	0.04	473	A	0.06	473
68	B	0.24	449	B	0.3	447	B	0.22	761	B	0.16	761	B	0.18	761	B	0.19	761	B	0.11	761	B	0.14	761
69	B	0.24	209	B	0.3	210	B	0.23	226	B	0.15	226	B	0.13	226	B	0.14	226	B	0.11	226	B	0.11	225
70	B	0.26	512	B	0.34	510	B	0.27	824	B	0.18	824	B	0.16	824	B	0.17	824	B	0.14	824	B	0.16	824
71	B	0.31	375	B	0.38	375	B	0.33	407	B	0.22	407	B	0.22	407	B	0.2	407	B	0.16	407	B	0.14	407
72	B	0.24	399	B	0.31	399	B	0.25	431	B	0.16	431	B	0.12	431	B	0.13	431	B	0.11	431	B	0.14	431
73	A	0.25	380	A	0.31	380	B	0.25	412	B	0.16	412	B	0.14	412	B	0.14	412	B	0.12	412	B	0.14	412
74	A	0.31	246	A	0.39	246	A	0.31	262	A	0.22	262	A	0.22	262	A	0.21	262	A	0.16	262	A	0.08	262
75	A	0.34	176	A	0.4	176	A	0.34	190	A	0.25	190	A	0.23	190	A	0.23	190	A	0.18	190	A	0.14	190
76	B	0.23	450	B	0.3	448	B	0.24	830	B	0.15	830	B	0.12	830	B	0.12	830	B	0.1	830	B	0.11	830
77	B	0.22	253	B	0.29	252	B	0.22	468	B	0.14	468	B	0.11	468	B	0.11	468	B	0.1	468	B	0.09	468
78	A	0.26	194	A	0.33	194	A	0.27	194	A	0.17	194	A	0.14	194	A	0.14	194	A	0.12	194	A	0.11	194
79	B	0.24	438	B	0.31	438	B	0.26	476	B	0.16	476	B	0.13	476	B	0.13	476	B	0.11	476	B	0.11	476
80	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
82	A	0.05	171	A	0.09	191	A	0.05	191	A	0.	191	A	0.01	191	A	0.01	191	A	0.	191	A	0.	191
83	A	0.08	56	A	0.13	56	A	0.09	56	A	0.03	56	A	0.01	56	A	0.	56	A	0.	56	A	0.02	56

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Table 116 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
84	A	0.1	107	A	0.15	107	A	0.11	128	A	0.03	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128
85	A	0.06	235	A	0.1	255	A	0.07	255	A	0.	255	A	0.01	255	A	0.01	255	A	0.	255	A	0.	255
86	A	0.06	234	A	0.1	254	A	0.06	254	A	0.01	254	A	0.01	254	A	0.01	254	A	0.	254	A	0.	254
87	A	0.11	153	A	0.16	153	A	0.12	153	A	0.04	153	A	0.01	153	A	0.01	153	A	0.	153	A	0.02	153
88	A	0.06	78	A	0.1	78	A	0.05	78	A	0.02	78	A	0.01	78	A	0.01	78	A	0.01	78	A	0.02	78
89	B	0.11	281	B	0.15	240	B	0.09	240	B	0.04	240	B	0.02	240	B	0.02	240	B	0.01	240	B	0.02	240
90	B	0.07	294	B	0.12	294	B	0.09	294	B	0.03	294	B	0.02	294	B	0.02	294	B	0.01	294	B	0.	294
91	A	0.06	205	A	0.11	205	A	0.06	205	A	0.03	205	A	0.02	205	A	0.02	205	A	0.01	205	A	0.	205
92	A	0.07	159	A	0.11	159	A	0.06	159	A	0.02	159	A	0.01	159	A	0.01	159	A	0.01	159	A	0.02	159
93	A	0.11	292	A	0.16	255	A	0.1	255	A	0.04	255	A	0.02	255	A	0.02	255	A	0.01	255	A	0.02	255
94	B	0.16	237	B	0.21	237	B	0.16	237	B	0.09	237	B	0.07	237	B	0.08	237	B	0.07	237	B	0.06	237
95	B	0.15	200	B	0.2	200	B	0.15	200	B	0.08	200	B	0.05	200	B	0.06	200	B	0.05	200	B	0.05	200
96	B	0.27	983	B	0.33	983	B	0.3	1165	B	0.18	1165	B	0.17	1165	B	0.18	1165	B	0.14	1165	B	0.16	1165
97	B	0.2	793	B	0.26	793	B	0.22	807	B	0.12	807	B	0.11	807	B	0.12	807	B	0.08	807	B	0.06	807
98	B	0.14	402	B	0.19	404	B	0.15	402	B	0.08	402	B	0.06	402	B	0.06	402	B	0.05	402	B	0.06	402
99	B	0.15	554	B	0.2	552	B	0.15	554	B	0.08	554	B	0.06	554	B	0.06	554	B	0.06	554	B	0.06	554
100	B	0.18	597	B	0.23	597	B	0.2	635	B	0.1	635	B	0.08	635	B	0.08	635	B	0.07	635	B	0.05	635
101	A	0.05	223	B	0.09	253	B	0.06	253	B	0.	253	B	0.01	253	B	0.01	253	B	0.	253	B	0.	253
102	A	0.1	102	A	0.14	102	A	0.11	110	A	0.03	110	A	0.	110	A	0.	110	A	0.	110	A	0.	110
103	A	0.12	173	A	0.18	173	A	0.14	213	A	0.03	213	A	0.	213	A	0.	213	A	0.	213	A	0.02	213
104	A	0.07	386	A	0.12	416	A	0.08	416	A	0.01	416	A	0.01	416	A	0.01	416	A	0.	416	A	0.02	416
105	A	0.12	181	A	0.17	181	A	0.13	181	A	0.04	181	A	0.01	181	A	0.01	181	A	0.	181	A	0.02	181
106	A	0.08	455	A	0.13	485	A	0.09	485	A	0.01	485	A	0.01	485	A	0.01	485	A	0.01	485	A	0.02	485
107	A	0.11	221	A	0.16	229	A	0.13	229	A	0.04	229	A	0.01	229	A	0.01	229	A	0.01	229	A	0.02	229
108	A	0.14	295	A	0.18	295	B	0.15	347	B	0.04	347	B	0.	347	B	0.	347	B	0.	347	B	0.	347
109	B	0.22	577	B	0.24	577	B	0.2	745	B	0.05	745	B	0.01	745	B	0.01	745	B	0.	745	B	0.	745
110	B	0.11	248	B	0.16	211	B	0.09	211	B	0.04	211	B	0.02	211	B	0.02	211	B	0.01	211	B	0.	211
111	B	0.11	420	B	0.16	309	B	0.09	309	B	0.04	309	B	0.02	309	B	0.02	309	B	0.01	309	B	0.02	309

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
112	B	0.11	482	B	0.16	371	B	0.09	371	B	0.04	371	B	0.02	371	B	0.02	371	B	0.01	371	B	0.02	371
113	A	0.07	303	A	0.12	303	A	0.07	303	A	0.03	303	A	0.02	303	A	0.02	303	A	0.01	303	A	0.02	303
114	B	0.13	542	A	0.2	431	A	0.1	431	A	0.05	431	A	0.02	431	A	0.02	431	A	0.01	431	A	0.02	431
115	B	0.09	493	B	0.14	493	B	0.1	493	B	0.03	493	B	0.02	493	B	0.02	493	B	0.01	493	B	0.02	493
116	B	0.22	832	B	0.26	344	B	0.06	403	B	0.03	403	B	0.02	403	B	0.02	403	B	0.02	403	B	0.	403
117	B	0.29	569	B	0.34	315	B	0.14	443	B	0.13	442	B	0.11	442	B	0.14	443	B	0.08	442	B	0.06	442
118	B	0.23	604	B	0.32	604	B	0.25	604	B	0.16	604	B	0.14	604	B	0.14	604	B	0.12	604	B	0.09	604
119	B	0.32	583	B	0.29	367	B	0.27	481	B	0.21	481	B	0.18	481	B	0.24	481	B	0.13	481	B	0.09	481
120	B	0.43	1654	A	0.36	446	A	0.49	503	A	0.32	503	A	0.42	503	A	0.43	503	A	0.22	503	A	0.16	503
121	B	0.21	859	B	0.28	859	B	0.25	859	B	0.13	859	B	0.1	859	B	0.11	859	B	0.09	859	B	0.08	859
122	B	0.16	732	B	0.22	730	B	0.19	732	B	0.09	732	B	0.07	732	B	0.07	732	B	0.06	732	B	0.08	730
123	B	0.11	1000	B	0.16	1000	B	0.14	1000	B	0.06	1000	B	0.05	1000	B	0.05	1000	B	0.04	1000	B	0.06	1000
124	B	0.07	882	B	0.11	882	B	0.06	882	B	0.03	882	B	0.03	882	B	0.03	882	F	0	0	F	0	0
125	B	0.14	1554	B	0.18	1554	B	0.16	1554	B	0.09	1554	B	0.09	1554	B	0.1	1554	B	0.06	1554	B	0.06	1554
126	B	0.08	1189	B	0.12	1189	B	0.06	1189	B	0.04	1189	B	0.04	1189	B	0.04	1189	B	0.03	1189	B	0.05	1189
127	B	0.08	604	B	0.12	604	B	0.05	604	B	0.03	604	B	0.04	604	B	0.04	604	B	0.03	604	B	0.03	604
128	B	0.13	654	B	0.18	654	B	0.13	654	B	0.06	654	B	0.05	654	B	0.05	654	B	0.04	654	B	0.06	654
129	B	0.13	668	B	0.18	668	B	0.13	668	B	0.07	668	B	0.05	668	B	0.05	668	B	0.04	668	B	0.06	668
130	B	0.31	383	B	0.38	383	B	0.32	417	B	0.21	417	B	0.2	417	B	0.19	417	B	0.15	417	B	0.14	417
131	A	0.29	245	A	0.36	245	A	0.31	261	A	0.21	261	A	0.17	261	A	0.16	261	A	0.13	261	A	0.11	261
132	A	0.33	197	A	0.41	197	A	0.34	222	A	0.23	222	A	0.21	222	A	0.21	222	A	0.17	222	A	0.11	222
133	B	0.29	732	B	0.38	734	B	0.29	1207	B	0.2	1207	B	0.17	1207	B	0.19	1207	B	0.16	1207	B	0.22	1207
134	B	0.24	547	B	0.3	549	B	0.24	1093	B	0.15	1093	B	0.11	1093	B	0.12	1093	B	0.1	1093	B	0.12	1093
135	B	0.21	320	B	0.27	319	B	0.21	335	B	0.12	335	B	0.09	335	B	0.09	335	B	0.08	335	B	0.11	334
136	A	0.29	263	A	0.37	263	A	0.3	263	A	0.2	263	A	0.17	263	A	0.17	263	A	0.14	263	A	0.12	263
137	B	0.28	516	B	0.35	515	B	0.29	1070	B	0.2	1070	B	0.16	1070	B	0.16	1070	B	0.13	1070	B	0.11	1070
138	B	0.26	427	B	0.32	427	B	0.26	458	B	0.17	458	B	0.13	458	B	0.14	458	B	0.11	458	B	0.11	458
139	B	0.27	624	B	0.34	624	B	0.28	686	B	0.17	686	B	0.15	686	B	0.16	686	B	0.13	686	B	0.11	686

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
140	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
141	A	0.03	149	A	0.08	169	A	0.03	169	A	0.	169	A	0.01	169	A	0.	169	A	0.	169	A	0.02	169
142	A	0.06	120	A	0.1	128	A	0.06	128	A	0.02	128	A	0.01	128	A	0.01	128	A	0.	128	A	0.02	128
143	A	0.05	430	A	0.09	470	A	0.04	470	A	0.01	470	A	0.01	470	A	0.01	470	A	0.	470	A	0.	470
144	A	0.06	183	A	0.1	191	A	0.06	191	A	0.02	191	A	0.01	191	A	0.01	191	A	0.	191	A	0.	191
145	A	0.06	591	A	0.11	647	A	0.04	647	A	0.01	647	A	0.01	647	A	0.01	647	A	0.01	647	A	0.	647
146	A	0.08	258	A	0.12	284	A	0.08	284	A	0.02	284	A	0.01	284	A	0.01	284	A	0.	284	A	0.	284
147	A	0.07	259	A	0.12	269	A	0.1	269	A	0.03	269	A	0.01	269	A	0.01	269	A	0.	269	A	0.	269
148	A	0.05	205	A	0.09	225	A	0.04	225	A	0.	225	A	0.	225	A	0.01	225	A	0.	225	A	0.02	225
149	A	0.07	158	A	0.13	158	A	0.08	158	A	0.04	158	A	0.04	158	A	0.03	158	A	0.01	158	A	0.02	158
150	B	0.11	551	B	0.16	399	B	0.11	399	B	0.05	399	B	0.03	399	B	0.03	399	B	0.01	399	B	0.	399
151	B	0.08	350	B	0.14	458	B	0.09	458	B	0.04	458	B	0.03	458	B	0.03	458	B	0.01	458	B	0.02	458
152	A	0.08	230	B	0.13	356	B	0.08	356	B	0.02	356	B	0.02	356	B	0.02	356	B	0.01	356	B	0.02	356
153	B	0.1	1143	B	0.14	1133	B	0.09	1133	B	0.03	1133	B	0.03	1133	B	0.03	1133	B	0.01	1133	B	0.02	1133
154	B	0.12	2318	B	0.16	2000	B	0.11	2000	B	0.05	2000	B	0.04	2000	B	0.04	2000	B	0.02	2000	B	0.03	2000
155	A	0.1	374	B	0.14	600	B	0.08	600	B	0.03	600	B	0.02	600	B	0.02	600	B	0.01	600	B	0.02	600
156	B	0.72	2783	B	0.83	2783	B	0.65	7955	B	0.53	7955	B	0.83	7955	B	0.83	7955	B	0.49	7955	B	0.53	7955
157	B	0.28	1834	B	0.35	1831	B	0.19	4260	B	0.13	4260	B	0.3	4254	B	0.32	4260	B	0.13	4260	B	0.11	4260
158	B	0.73	3384	B	0.86	3384	B	0.66	9756	B	0.54	9756	B	0.65	9756	B	0.65	9756	B	0.53	9756	B	0.58	9756
159	B	0.3	1011	B	0.37	1011	B	0.31	3003	B	0.2	3003	B	0.2	3003	B	0.2	3003	B	0.18	3003	B	0.16	3003
160	B	0.32	841	B	0.39	841	B	0.33	2458	B	0.22	2458	B	0.24	2458	B	0.23	2458	B	0.19	2458	B	0.14	2458
161	B	0.36	3529	B	0.43	3529	B	0.33	3529	B	0.24	3529	B	0.29	3529	B	0.32	3529	B	0.23	3529	B	0.33	3529
162	B	0.32	4550	B	0.4	4550	B	0.32	4566	B	0.24	4566	B	0.26	4566	B	0.27	4566	B	0.2	4566	B	0.28	4566
163	B	0.34	6380	B	0.43	6380	B	0.32	6396	B	0.22	6396	B	0.24	6396	B	0.26	6396	B	0.22	6396	B	0.31	6396
164	B	0.61	9631	B	0.75	9631	B	0.58	9647	B	0.48	9647	B	0.57	9647	B	0.63	9647	B	0.52	9647	B	0.97	9647
165	B	0.57	11805	B	0.69	11805	B	0.55	11837	B	0.42	11837	B	0.48	11837	B	0.53	11837	B	0.44	11837	B	0.76	11837
166	A	0.05	65	B	0.09	73	B	0.05	73	B	0.02	73	B	0.	73	B	0.01	73	B	0.	73	B	0.	73
167	A	0.05	57	A	0.1	57	A	0.06	57	A	0.02	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
168	A	0.06	107	A	0.1	107	A	0.05	128	A	0.02	128	A	0.	128	A	0.	128	A	0.	128	A	0.	128
169	A	0.04	241	A	0.08	271	A	0.03	271	A	0.01	271	A	0.01	271	A	0.01	271	A	0.	271	A	0.	271
170	A	0.06	223	A	0.11	251	A	0.07	251	A	0.02	251	A	0.01	251	A	0.01	251	A	0.01	251	A	0.	251
171	A	0.07	207	A	0.12	207	A	0.06	207	A	0.02	207	A	0.01	207	A	0.01	207	A	0.01	207	A	0.02	207
172	A	0.08	180	A	0.12	180	A	0.06	203	A	0.02	203	A	0.01	203	A	0.	203	A	0.	203	A	0.	203
173	B	0.12	651	B	0.16	685	B	0.11	685	B	0.05	685	B	0.03	685	B	0.03	685	B	0.02	685	B	0.02	685
174	B	0.1	1406	B	0.14	1395	B	0.09	1395	B	0.05	1395	B	0.04	1395	B	0.04	1395	B	0.02	1395	B	0.03	1395
175	B	0.13	1063	B	0.18	1015	B	0.12	1015	B	0.05	1015	B	0.03	1015	B	0.03	1015	B	0.01	1015	B	0.02	1015
176	B	1.08	5368	B	1.28	5368	B	1.01	15324	B	0.92	15324	B	1.41	15324	B	1.48	15324	B	1.15	15324	B	2.48	15324
177	B	0.52	2683	B	0.62	2683	B	0.44	7765	B	0.35	7765	B	0.4	7765	B	0.41	7765	B	0.34	7765	B	0.36	7765
178	B	0.77	3637	B	0.89	3637	B	0.68	10471	B	0.57	10471	B	0.68	10471	B	0.72	10471	B	0.56	10471	B	0.69	10471
179	B	0.48	4231	B	0.61	4231	B	0.43	12495	B	0.33	12495	B	0.52	12495	B	0.55	12495	B	0.32	12495	B	0.45	12495
180	B	0.32	1025	B	0.4	1025	B	0.32	3030	B	0.23	3030	B	0.24	3023	B	0.23	3023	B	0.19	3023	B	0.14	3023
181	B	0.53	3333	B	0.61	3333	B	0.41	3333	B	0.29	3333	B	0.32	3333	B	0.35	3333	B	0.29	3333	B	0.37	3333
182	B	0.58	6455	B	0.67	6455	B	0.45	6471	B	0.32	6471	B	0.37	6471	B	0.38	6471	B	0.33	6471	B	0.48	6471
183	B	0.29	4213	B	0.37	4213	B	0.27	4229	B	0.19	4229	B	0.2	4229	B	0.22	4229	B	0.19	4229	B	0.27	4229
184	B	0.33	5712	B	0.41	5712	B	0.3	5728	B	0.21	5728	B	0.22	5728	B	0.24	5728	B	0.21	5728	B	0.28	5728
185	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
186	A	0.08	141	A	0.12	141	A	0.06	162	A	0.02	162	A	0.	162	A	0.	162	A	0.	162	A	0.	162
187	A	0.08	173	A	0.12	173	A	0.06	213	A	0.02	213	A	0.	213	A	0.	213	A	0.	213	A	0.	213
188	A	0.08	204	A	0.12	204	A	0.07	204	A	0.02	204	A	0.01	204	A	0.01	204	A	0.01	204	A	0.	204
189	A	0.08	200	A	0.12	200	A	0.07	222	A	0.02	222	A	0.	222	A	0.	222	A	0.	222	A	0.	222
190	A	0.06	389	B	0.1	437	B	0.04	437	B	0.01	437	B	0.01	437	B	0.01	437	B	0.01	437	B	0.	437
191	A	0.07	278	A	0.12	286	A	0.08	286	A	0.03	286	A	0.01	286	A	0.01	286	A	0.	286	A	0.02	286
192	A	0.09	362	A	0.13	362	A	0.08	362	A	0.02	362	A	0.01	362	A	0.01	362	A	0.01	362	A	0.	362
193	A	0.08	905	B	0.13	983	B	0.05	983	B	0.01	983	B	0.01	983	B	0.01	983	B	0.01	983	B	0.02	983
194	B	0.08	745	B	0.12	815	B	0.05	815	B	0.01	815	B	0.01	815	B	0.01	815	B	0.01	815	B	0.02	815
195	A	0.09	457	A	0.14	505	A	0.09	505	A	0.03	505	A	0.01	505	A	0.01	505	A	0.01	505	A	0.	505

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Table 116 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
196	A	0.05	228	A	0.09	248	A	0.04	248	A	0.	248	A	0.01	248	A	0.01	248	A	0.	248	A	0.02	248
197	B	0.08	202	B	0.14	202	B	0.08	202	B	0.04	202	B	0.03	202	B	0.03	202	B	0.02	202	B	0.02	202
198	B	0.13	1580	B	0.18	940	B	0.11	940	B	0.06	940	B	0.03	940	B	0.03	940	B	0.02	940	B	0.03	940
199	B	0.1	1813	B	0.15	1758	B	0.1	1758	B	0.05	1758	B	0.04	1758	B	0.04	1758	B	0.02	1758	B	0.03	1758
200	B	0.1	1572	B	0.15	1518	B	0.1	1518	B	0.04	1518	B	0.03	1518	B	0.03	1518	B	0.02	1518	B	0.03	1518
201	B	0.13	3223	B	0.18	2862	B	0.1	2862	B	0.04	2862	B	0.03	2862	B	0.03	2862	B	0.02	2862	B	0.02	2862
202	B	0.61	3344	B	0.71	3344	B	0.51	9722	B	0.39	9722	B	0.44	9722	B	0.46	9722	B	0.38	9722	B	0.42	9722
203	B	0.89	4527	B	1.02	4527	B	0.8	13113	B	0.66	13113	B	0.8	13113	B	0.79	13113	B	0.65	13113	B	0.86	13113
204	B	0.92	5138	B	1.06	5138	B	0.82	14916	B	0.68	14916	B	0.86	14916	B	0.84	14916	B	0.68	14916	B	0.89	14916
205	B	0.65	4884	B	0.77	4884	B	0.32	14231	B	0.32	14231	B	0.47	14231	B	0.46	14231	B	0.22	14220	B	0.22	14220
206	B	0.56	5850	B	0.74	5850	B	0.06	17391	B	0.03	17391	B	0.02	17391	B	0.02	17391	B	0.02	17391	B	0.03	17391
207	B	0.36	1757	B	0.44	1757	B	0.34	5103	B	0.23	5103	B	0.22	5103	B	0.23	5103	B	0.21	5103	B	0.2	5103
208	B	0.31	2259	B	0.38	2260	B	0.32	6782	B	0.22	6783	B	0.22	6783	B	0.22	6782	B	0.19	6782	B	0.23	6783
209	B	1.	5857	B	1.13	5857	B	0.7	5857	B	0.55	5857	B	0.69	5857	B	0.72	5857	B	0.6	5857	B	0.98	5857
210	B	1.14	10856	B	1.29	10856	B	0.81	10872	B	0.65	10872	B	0.86	10872	B	0.91	10872	B	0.75	10872	B	1.34	10872
211	B	0.41	7859	B	0.49	7859	B	0.38	7875	B	0.29	7875	B	0.27	7875	B	0.3	7875	B	0.25	7875	B	0.37	7875
212	B	0.06	796	B	0.1	796	B	0.05	796	B	0.03	796	B	0.03	796	B	0.03	796	B	0.02	796	B	0.03	796
213	B	0.08	2259	B	0.13	2259	B	0.06	2259	B	0.04	2259	B	0.03	2259	B	0.04	2259	B	0.03	2259	B	0.05	2259
214	B	0.15	2154	B	0.2	2154	B	0.13	2154	B	0.09	2154	B	0.07	2154	B	0.08	2154	B	0.07	2154	B	0.08	2154
215	B	0.09	1876	B	0.13	1876	B	0.06	1876	B	0.04	1876	B	0.04	1876	B	0.04	1876	B	0.03	1876	B	0.05	1876
216	A	0.06	333	A	0.1	333	A	0.05	333	A	0.04	333	A	0.05	333	A	0.07	333	A	0.02	333	A	0.05	333
217	B	0.08	1022	B	0.13	1022	B	0.08	1022	B	0.05	1022	B	0.07	1022	B	0.09	1022	B	0.04	1022	B	0.06	1022
218	B	0.08	1132	B	0.13	1132	B	0.07	1132	B	0.05	1132	B	0.04	1132	B	0.04	1132	B	0.04	1132	B	0.05	1132
219	B	0.1	2248	B	0.14	2248	B	0.09	2248	B	0.06	2248	B	0.1	2248	B	0.12	2212	B	0.06	2212	B	0.09	2212
220	B	0.15	2373	B	0.2	2373	B	0.17	2373	B	0.09	2373	B	0.07	2373	B	0.08	2337	B	0.07	2337	B	0.11	2337
221	C	0.35	2548	C	0.44	2548	C	0.32	2546	C	0.21	2548	C	0.27	2548	C	0.29	2548	C	0.19	2548	C	0.26	2548
222	B	0.42	3639	B	0.51	3641	B	0.37	3639	B	0.26	3639	B	0.29	3641	B	0.32	3639	B	0.25	3641	B	0.39	3641
223	C	0.43	4247	C	0.53	4247	C	0.4	4247	C	0.29	4247	C	0.31	4247	C	0.34	4247	C	0.28	4247	C	0.4	4247

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Table 116 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
224	C	0.57	6194	C	0.68	6194	C	0.56	6194	C	0.44	6194	C	0.62	6194	C	0.63	6194	C	0.42	6194	C	0.67	6194
225	C	0.3	1638	C	0.37	1638	C	0.3	1638	C	0.19	1638	C	0.17	1638	C	0.18	1638	C	0.14	1638	C	0.19	1638
226	B	0.75	11337	B	0.96	11337	B	0.8	11353	B	0.64	11353	B	0.91	11353	B	0.96	11353	B	0.73	11353	B	1.37	11353
227	B	0.06	536	B	0.11	536	B	0.06	536	B	0.04	536	B	0.03	536	B	0.03	536	B	0.03	536	B	0.05	536
228	B	0.06	408	B	0.12	408	B	0.05	408	B	0.03	408	B	0.02	408	B	0.03	408	B	0.02	408	B	0.03	408
229	B	0.06	582	B	0.11	582	B	0.05	582	B	0.03	582	B	0.02	582	B	0.02	582	B	0.02	582	B	0.02	582
230	A	0.07	436	A	0.11	436	A	0.05	436	A	0.03	436	A	0.02	436	A	0.02	436	A	0.02	436	A	0.02	436
231	B	0.08	473	B	0.12	473	B	0.07	473	B	0.04	473	B	0.03	473	B	0.03	473	B	0.02	473	B	0.03	473
232	A	0.08	501	A	0.14	501	A	0.07	501	A	0.04	501	A	0.03	501	A	0.03	501	A	0.03	501	A	0.03	501
233	B	0.08	473	B	0.12	473	B	0.07	473	B	0.04	473	B	0.03	473	B	0.03	473	B	0.02	473	B	0.03	473
234	B	0.2	375	B	0.25	375	B	0.21	689	B	0.14	689	B	0.13	689	B	0.15	689	B	0.1	689	B	0.12	689
235	A	0.32	142	A	0.39	142	A	0.28	188	A	0.2	188	A	0.19	188	A	0.19	188	A	0.15	188	A	0.14	188
236	A	0.21	98	A	0.27	98	A	0.06	146	A	0.03	146	A	0.07	146	A	0.08	146	A	0.02	146	A	0.02	146
237	A	0.25	212	A	0.32	212	A	0.13	261	A	0.09	261	A	0.13	261	A	0.14	261	A	0.06	261	A	0.06	260
238	A	0.2	245	A	0.25	245	A	0.25	290	A	0.17	290	A	0.16	290	A	0.16	290	A	0.13	290	A	0.12	290
239	B	0.24	502	B	0.31	502	B	0.27	816	B	0.2	816	B	0.17	816	B	0.18	816	B	0.15	816	B	0.2	816
240	A	0.25	564	A	0.32	564	B	0.3	878	B	0.24	878	B	0.23	878	B	0.24	878	B	0.17	878	B	0.23	878
241	A	0.28	318	A	0.36	318	A	0.32	336	A	0.23	336	A	0.24	336	A	0.24	336	A	0.17	336	A	0.09	336
242	A	0.24	247	A	0.3	247	B	0.25	587	B	0.19	587	B	0.18	587	B	0.18	587	B	0.12	587	B	0.08	587
243	A	0.32	400	A	0.4	400	B	0.35	900	B	0.27	900	B	0.27	900	B	0.26	900	B	0.19	900	B	0.11	900
244	B	0.05	286	B	0.09	286	B	0.04	286	B	0.03	286	B	0.02	286	B	0.02	286	B	0.02	286	B	0.03	286
245	B	0.07	546	B	0.11	546	B	0.05	546	B	0.03	546	B	0.02	546	B	0.03	546	B	0.02	546	B	0.02	546
246	B	0.06	478	B	0.1	478	B	0.05	478	B	0.03	478	B	0.02	478	B	0.02	478	B	0.02	478	B	0.03	478
247	B	0.07	646	B	0.12	646	B	0.06	646	B	0.03	646	B	0.02	646	B	0.03	646	B	0.02	646	B	0.03	646
248	B	0.07	1002	B	0.11	1002	B	0.06	1002	B	0.03	1002	B	0.03	1002	B	0.03	1002	B	0.02	1002	B	0.03	1002
249	B	0.08	1293	B	0.12	1293	B	0.07	1293	B	0.04	1293	B	0.04	1293	B	0.04	1293	B	0.03	1293	B	0.05	1293
250	B	0.09	1205	B	0.13	1205	B	0.07	1205	B	0.04	1205	B	0.04	1205	B	0.04	1205	B	0.03	1205	B	0.05	1205
251	B	0.08	646	B	0.12	646	B	0.06	646	B	0.03	646	B	0.02	646	B	0.03	646	B	0.02	646	B	0.02	646

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Table 116 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
252	B	0.1	1560	B	0.14	1560	B	0.08	1560	B	0.04	1560	B	0.04	1560	B	0.04	1560	B	0.03	1560	B	0.06	1560
253	B	0.1	1640	B	0.14	1640	B	0.08	1640	B	0.05	1640	B	0.04	1640	B	0.04	1640	B	0.03	1640	B	0.05	1640
254	B	0.08	600	B	0.12	600	B	0.06	600	B	0.04	600	B	0.03	600	B	0.03	600	B	0.02	600	B	0.03	600
255	B	0.08	860	B	0.13	860	B	0.08	860	B	0.05	860	B	0.04	860	B	0.04	860	B	0.03	860	B	0.05	860
256	B	0.09	654	B	0.13	654	B	0.07	654	B	0.04	654	B	0.03	654	B	0.03	654	B	0.02	654	B	0.02	654
257	B	0.28	303	B	0.34	304	B	0.3	615	B	0.2	615	B	0.24	615	B	0.23	615	B	0.15	615	B	0.06	615
258	A	0.31	154	A	0.38	154	A	0.18	249	A	0.12	249	A	0.11	249	A	0.11	249	A	0.1	249	A	0.08	249
259	B	0.21	579	B	0.28	579	B	0.23	1912	B	0.15	1912	B	0.12	1912	B	0.14	1912	B	0.11	1912	B	0.14	1912
260	A	0.34	253	A	0.42	253	A	0.38	253	A	0.28	253	A	0.28	253	A	0.28	253	A	0.2	253	A	0.12	253
261	B	0.32	318	B	0.39	318	B	0.35	826	B	0.23	826	B	0.23	826	B	0.22	826	B	0.17	826	B	0.08	826
262	B	0.2	474	B	0.28	474	B	0.22	854	B	0.14	854	B	0.11	854	B	0.12	854	B	0.09	854	B	0.11	854
263	B	0.06	678	B	0.11	678	B	0.05	678	B	0.03	678	B	0.02	678	B	0.03	678	B	0.02	678	B	0.03	678
264	B	0.06	547	B	0.11	547	B	0.06	547	B	0.03	547	B	0.02	547	B	0.03	547	B	0.02	547	B	0.03	547
265	B	0.07	2259	B	0.12	2259	B	0.06	2259	B	0.03	2259	B	0.02	2259	B	0.03	2259	B	0.02	2259	B	0.05	2259
266	B	0.08	569	B	0.12	569	B	0.08	569	B	0.05	569	B	0.04	569	B	0.04	569	B	0.03	569	B	0.05	569
267	B	0.1	1164	B	0.14	1164	B	0.1	1164	B	0.06	1164	B	0.06	1164	B	0.07	1164	B	0.06	1164	B	0.08	1164
268	C	0.42	5592	C	0.55	5592	C	0.07	5615	C	0.18	5614	C	0.5	5614	C	0.54	5615	C	0.02	5614	C	0.02	5614
269	C	0.39	5624	C	0.48	5624	C	0.07	5521	C	0.03	5521	C	0.17	5521	C	0.18	5521	C	0.02	5520	C	0.02	5521
270	B	0.49	4754	B	0.62	4754	B	0.54	4754	B	0.44	4754	B	0.53	4754	B	0.57	4754	B	0.4	4754	B	0.69	4754
271	C	0.3	881	C	0.4	881	C	0.32	1673	C	0.22	1673	C	0.24	1673	C	0.25	1673	C	0.18	1673	C	0.2	1673
272	C	0.29	1768	C	0.37	1768	C	0.32	3353	C	0.22	3353	C	0.25	3353	C	0.26	3353	C	0.17	3353	C	0.17	3353
273	B	0.66	8766	B	0.82	8766	B	0.86	8782	B	0.7	8782	B	1.04	8782	B	1.1	8782	B	0.74	8782	B	1.34	8782
274	C	0.57	7020	C	0.72	7020	C	0.68	7036	C	0.56	7036	C	0.75	7036	C	0.78	7036	C	0.51	7036	C	0.76	7036
275	C	0.69	9934	C	0.86	9934	C	0.82	9950	C	0.67	9950	C	0.9	9950	C	0.92	9950	C	0.63	9950	C	0.9	9950

2.115 4_Trig_functions\4.3aSecant\4.3.7(dtrig)^m(a+b(csec)ⁿ)^p

Table 117: Breakdown of results for each integral

#	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.15	82	A	0.4	82	A	0.11	108	A	0.02	108	A	0.	108	A	0.	108	A	0.	108	A	0.	108
2	A	0.08	62	A	0.07	62	A	0.04	76	A	0.01	76	A	0.	76	A	0.	76	A	0.	76	A	0.	76
3	B	0.04	57	B	0.06	57	B	0.04	57	B	0.02	57	B	0.01	57	B	0.02	57	B	0.	57	B	0.	57
4	A	0.09	112	A	0.08	112	A	0.04	134	A	0.01	134	A	0.	134	A	0.	134	A	0.	134	A	0.	134
5	A	0.04	16	A	0.04	24	A	0.01	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
6	A	0.12	144	B	0.11	170	B	0.07	175	B	0.02	175	B	0.	175	B	0.	175	B	0.	175	B	0.	175
7	A	0.1	190	B	0.09	216	B	0.06	227	B	0.02	227	B	0.	227	B	0.	227	B	0.	227	B	0.	227
8	A	0.07	103	A	0.07	103	A	0.06	103	A	0.02	103	A	0.01	103	A	0.01	103	A	0.01	103	A	0.02	103
9	B	0.1	158	B	0.1	158	B	0.09	158	B	0.04	158	B	0.02	158	B	0.02	158	B	0.01	158	B	0.02	158
10	B	0.09	260	B	0.08	229	B	0.07	229	B	0.03	229	B	0.02	229	B	0.02	229	B	0.01	229	B	0.03	229
11	A	0.07	124	A	0.08	124	A	0.06	124	A	0.03	124	A	0.02	124	A	0.02	124	A	0.01	124	A	0.02	124
12	A	0.08	75	A	0.09	75	A	0.06	73	A	0.03	73	A	0.02	73	A	0.01	73	A	0.01	73	A	0.02	73
13	A	0.09	323	B	0.1	454	B	0.08	454	B	0.03	454	B	0.02	454	B	0.02	454	B	0.01	454	B	0.02	454
14	A	0.1	231	A	0.1	227	A	0.08	227	A	0.03	227	A	0.02	227	A	0.02	227	A	0.01	227	A	0.02	227
15	B	0.11	689	B	0.13	1110	B	0.09	1110	B	0.04	1110	B	0.02	1110	B	0.02	1110	B	0.01	1110	B	0.02	1110
16	A	0.1	314	B	0.1	493	B	0.08	493	B	0.03	493	B	0.02	493	B	0.02	493	B	0.01	493	B	0.02	493
17	A	0.11	157	A	0.12	118	A	0.1	118	A	0.04	118	A	0.02	118	A	0.02	118	A	0.01	118	A	0.02	118
18	C	0.54	3847	C	0.73	3807	C	1.18	3807	C	0.63	3807	C	0.43	3847	C	0.5	3847	C	0.25	3807	C	0.36	3847
19	B	0.64	1814	B	0.73	1814	A	0.06	299	A	0.05	299	A	0.03	299	A	0.03	299	A	0.03	299	A	0.03	299
20	B	0.22	1296	B	0.23	1296	A	0.05	261	A	0.04	261	A	0.02	261	A	0.02	261	A	0.03	261	A	0.02	261
21	C	0.72	3067	C	0.87	3047	C	1.31	7324	C	1.06	7324	C	1.12	7391	C	1.31	7389	C	0.9	7324	C	1.15	7391
22	B	0.3	4983	B	0.3	4983	B	0.11	1144	B	0.25	6353	B	0.22	6353	B	0.22	6353	B	0.18	6353	B	0.2	6353
23	A	0.03	59	A	0.03	59	A	0.04	66	A	0.03	66	A	0.02	66	A	0.02	66	A	0.03	66	A	0.02	66
24	C	0.49	1714	C	0.57	1699	C	0.67	3181	C	0.46	3181	C	0.49	3211	C	0.49	3211	C	0.42	3181	C	0.51	3211
25	C	0.24	1069	C	0.24	1059	C	0.22	2014	C	0.2	2014	C	0.19	2034	C	0.21	2034	C	0.2	2014	C	0.17	2034
26	A	2.73	159	A	3.02	159	F	0	0	A	0.04	131	A	0.03	131	A	0.03	131	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 117 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
28	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	A	0.05	49	A	0.04	66	A	0.02	71	A	0.	71	A	0.	71	A	0.	71	A	0.	71	A	0.02	71
31	A	0.09	138	A	0.08	142	A	0.02	142	A	0.	142	A	0.01	142	A	0.	142	A	0.	142	A	0.	142
32	A	0.06	98	A	0.05	102	A	0.02	102	A	0.	102	A	0.01	102	A	0.	102	A	0.	102	A	0.	102
33	A	0.05	32	A	0.04	32	A	0.04	32	A	0.02	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
34	A	0.08	33	A	0.07	33	A	0.04	41	A	0.02	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41
35	A	0.05	58	A	0.05	76	A	0.02	92	A	0.	92	A	0.	92	A	0.	92	A	0.	92	A	0.	92
36	A	0.12	86	A	0.1	86	A	0.04	102	A	0.02	102	A	0.	102	A	0.	102	A	0.	102	A	0.	102
37	A	0.06	104	A	0.06	131	B	0.03	165	B	0.	165	B	0.	165	B	0.	165	B	0.	165	B	0.	165
38	A	0.08	110	A	0.09	91	A	0.07	91	A	0.03	91	A	0.01	91	A	0.01	91	A	0.01	91	A	0.	91
39	A	0.04	47	A	0.04	47	A	0.04	47	A	0.02	47	A	0.01	47	A	0.01	47	A	0.	47	A	0.	47
40	A	0.09	92	A	0.09	115	A	0.08	115	A	0.04	115	A	0.01	115	A	0.01	115	A	0.01	115	A	0.	115
41	A	0.05	66	A	0.05	66	A	0.04	66	A	0.01	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.	66
42	A	0.07	124	A	0.07	181	A	0.06	181	A	0.02	181	A	0.01	181	A	0.01	181	A	0.01	181	A	0.02	181
43	A	0.11	214	A	0.11	274	A	0.08	274	A	0.05	274	A	0.02	274	A	0.01	274	A	0.01	274	A	0.02	274
44	B	0.07	238	A	0.07	179	A	0.06	179	A	0.02	179	A	0.02	179	A	0.01	179	A	0.01	179	A	0.02	179
45	A	0.06	97	A	0.06	97	A	0.05	97	A	0.01	97	A	0.01	97	A	0.01	97	A	0.01	97	A	0.02	97
46	A	0.12	470	A	0.12	353	A	0.09	353	A	0.04	353	A	0.02	353	A	0.02	353	A	0.01	353	A	0.02	353
47	B	0.1	649	A	0.1	369	A	0.08	369	A	0.02	369	A	0.02	369	A	0.02	369	A	0.01	369	A	0.02	369
48	B	0.25	148	B	0.24	146	B	0.21	147	B	0.16	148	B	0.15	147	B	0.14	147	B	0.09	148	B	0.08	148
49	B	0.19	203	B	0.19	203	B	0.17	203	B	0.14	203	B	0.12	203	B	0.12	203	B	0.1	203	B	0.06	203
50	B	0.24	265	B	0.24	265	B	0.22	265	B	0.19	265	B	0.18	265	B	0.18	265	B	0.15	265	B	0.08	265
51	C	0.76	6560	C	0.88	6442	C	0.84	6442	C	0.78	6442	C	0.9	6560	C	0.88	6562	C	0.71	6442	C	1.	6562
52	C	0.34	1769	C	0.36	1754	C	0.33	1765	C	0.3	1765	C	0.31	1780	C	0.32	1780	C	0.27	1765	C	0.23	1780
53	C	0.2	1098	C	0.2	1088	C	0.18	1097	C	0.16	1099	C	0.16	1107	C	0.16	1107	C	0.15	1097	C	0.11	1107
54	C	0.35	1713	C	0.36	1698	C	0.04	1741	C	0.02	1741	C	0.02	1756	C	0.02	1756	C	0.02	1741	C	0.02	1756
55	C	0.28	269	C	0.28	264	C	0.22	264	C	0.22	264	C	0.21	269	C	0.22	269	C	0.2	264	C	0.08	269

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
56	C	0.22	379	C	0.22	374	C	0.18	374	C	0.2	374	C	0.19	379	C	0.18	379	C	0.21	374	C	0.12	379
57	C	0.35	3068	C	0.38	3048	C	0.33	3248	C	0.32	3248	C	0.35	3268	C	0.33	3268	C	0.32	3248	C	0.22	3268
58	C	0.59	3171	C	0.72	3146	C	0.66	5680	C	0.63	5680	C	0.69	5730	C	0.74	5730	C	0.65	5680	C	1.16	5730
59	C	0.59	14361	C	0.64	14061	C	0.59	14057	C	0.54	14053	C	0.61	14353	C	0.62	14357	C	0.52	14057	C	0.83	14365
60	C	0.4	10279	C	0.43	10069	C	0.37	10061	C	0.34	10061	C	0.39	10271	C	0.4	10279	C	0.35	10069	C	0.53	10279
61	C	0.72	17494	C	0.8	17142	C	0.73	17134	C	0.71	17134	C	0.89	17494	C	0.9	17494	C	0.73	17142	C	1.25	17502
62	A	0.21	85	A	0.22	85	A	0.2	102	A	0.17	102	A	0.16	102	A	0.16	110	A	0.15	110	A	0.08	110
63	C	0.28	3024	C	0.3	2986	C	0.25	4476	C	0.23	4476	C	0.25	4529	C	0.26	4529	C	0.24	4484	C	0.28	4529
64	C	0.28	143	C	0.26	142	C	0.24	142	C	0.19	154	C	0.18	154	C	0.2	154	C	0.13	155	C	0.09	154
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
67	A	0.04	50	A	0.04	50	A	0.04	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50	A	0.02	50
68	A	0.05	64	A	0.05	64	A	0.05	64	A	0.02	64	A	0.	64	A	0.	64	A	0.	64	A	0.	64
69	A	0.04	33	B	0.04	41	B	0.04	41	B	0.02	41	B	0.	41	B	0.	41	B	0.	41	B	0.	41
70	A	0.05	103	A	0.06	103	A	0.04	103	A	0.01	103	A	0.01	103	A	0.	103	A	0.	103	A	0.02	103
71	A	0.03	48	A	0.03	65	A	0.02	70	A	0.	70	A	0.	70	A	0.	70	A	0.	70	A	0.	70
72	A	0.09	110	A	0.11	110	A	0.09	110	A	0.04	110	A	0.03	110	A	0.02	110	A	0.01	110	A	0.02	110
73	A	0.08	126	A	0.1	126	A	0.07	126	A	0.04	126	A	0.02	126	A	0.02	126	A	0.01	126	A	0.02	126
74	A	0.08	68	A	0.08	68	A	0.06	68	A	0.02	68	A	0.01	68	A	0.01	68	A	0.01	68	A	0.	68
75	A	0.1	155	A	0.11	125	A	0.08	125	A	0.04	125	A	0.03	125	A	0.02	125	A	0.01	125	A	0.02	125
76	B	0.08	242	B	0.09	408	B	0.07	408	B	0.03	408	B	0.02	408	B	0.02	408	B	0.01	408	B	0.02	408
77	A	0.13	248	A	0.13	248	A	0.1	248	A	0.05	248	A	0.03	248	A	0.03	248	A	0.01	248	A	0.02	248
78	A	0.09	115	A	0.09	115	A	0.07	115	A	0.02	115	A	0.01	115	A	0.01	115	A	0.01	115	A	0.02	115
79	B	0.11	304	A	0.12	214	A	0.1	214	A	0.04	214	A	0.03	214	A	0.03	214	A	0.01	214	A	0.02	214
80	B	0.23	2528	B	0.23	2528	B	0.08	970	B	0.06	970	B	0.05	970	B	0.04	970	B	0.04	970	B	0.03	970
81	C	0.22	588	C	0.23	578	C	0.17	589	C	0.23	589	C	0.23	599	C	0.24	599	C	0.23	589	C	0.12	599
82	C	0.41	2002	C	0.44	1987	C	0.4	2031	C	0.37	2030	C	0.38	2045	C	0.39	2045	C	0.33	2030	C	0.38	2045
83	C	0.42	1952	C	0.45	1932	C	0.43	1948	C	0.42	1948	C	0.47	1968	C	0.45	1968	C	0.39	1948	C	0.19	1968

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Table 117 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
84	A	0.02	42	A	0.02	42	A	0.02	42	A	0.01	42	A	0.	42	A	0.	42	A	0.	42	A	0.	42
85	B	0.2	376	B	0.2	376	B	0.06	189	B	0.14	461	B	0.12	461	B	0.12	461	B	0.11	461	B	0.09	461
86	C	0.22	404	C	0.22	404	C	0.19	404	C	0.2	404	C	0.18	404	C	0.19	404	C	0.2	404	C	0.09	404
87	C	0.3	1865	C	0.31	1845	C	0.29	1845	C	0.28	1845	C	0.28	1865	C	0.28	1865	C	0.27	1845	C	0.12	1865
88	A	0.02	86	A	0.02	86	A	0.02	86	A	0.01	86	A	0.	86	A	0.01	86	A	0.	86	A	0.02	86
89	C	0.28	1142	C	0.3	1132	C	0.29	1717	C	0.25	1717	C	0.22	1732	C	0.22	1732	C	0.21	1717	C	0.22	1732
90	C	0.46	7586	C	0.51	7506	C	0.47	7516	C	0.43	7516	C	0.46	7596	C	0.48	7596	C	0.42	7516	C	0.59	7596
91	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
92	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
93	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
94	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
95	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.116 $4_Trig_functions\4.3bCosecant\4.3.0(acsc)^m(btrg)^n$

Table 118: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.	20	A	0.04	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
2	A	0.01	23	A	0.06	33	A	0.01	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38
3	A	0.07	90	A	0.06	90	A	0.02	90	A	0.02	90	A	0.02	90	A	0.01	90	A	0.02	90	A	0.03	90
4	A	0.03	100	A	0.06	100	A	0.02	100	A	0.02	100	A	0.02	100	A	0.03	100	A	0.02	100	A	0.02	100
5	C	0.27	546	C	0.24	546	C	0.22	562	C	0.18	562	C	0.17	546	C	0.2	562	C	0.15	562	C	0.14	562
6	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
7	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 118 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
10	A 0.07 44	A 0.12 44	A 0.07 62	A 0.06 62	A 0.05 62	A 0.05 62	A 0.04 62	A 0.05 62
11	C 0.2 1361	C 0.24 1361	C 0.19 1413	C 0.17 1413	C 0.17 1349	C 0.17 1413	C 0.17 1413	C 0.16 1349
12	C 0.2 384	C 0.22 384	C 0.18 744	C 0.14 744	C 0.14 712	C 0.17 744	C 0.14 712	C 0.09 744
13	C 0.21 161	C 0.29 161	C 0.23 153	C 0.18 153	C 0.2 149	C 0.2 153	C 0.18 153	C 0.22 149
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.117 $4_Trig_functions\4.3bCosecant\4.3.11(ex)^m(a+bcsc(c+dx^n))^p$

Table 119: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	A 0.05 94	A 0.05 96	A 0.01 96	A 0. 96	A 0.02 96	A 0.02 96	A 0. 96	A 0. 96
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	C 0.37 711	C 0.28 711	C 0.21 711	C 0.28 711	C 0.17 401	C 0.17 709	C 0.16 401	C 0.23 401
15	F 0 0	F 0 0	F 0 0	F 0 0	C 0.2 1208	C 0.23 1208	C 0.22 1208	C 0.31 1208
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 119 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.118 $4_Trig_functions\backslash 4.3bCosecant\backslash 4.3.1.2(dcsc)^n(a+bcsc)^m$

Table 120: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.03 89	A 0.08 89	A 0.03 89	A 0.02 89	A 0.02 89	A 0.02 89	A 0.01 89	A 0. 89
2	B 0.04 100	B 0.09 77	B 0.05 77	B 0.02 77	B 0.02 77	B 0.02 77	B 0.01 77	B 0.02 77
3	B 0.15 1141	B 0.21 1141	B 0.14 1427	B 0.11 1427	B 0.08 1427	B 0.09 1427	B 0.07 1427	B 0.08 1427
4	B 0.09 1961	B 0.15 1961	B 0.1 2735	B 0.06 2735	B 0.06 2735	B 0.05 2735	B 0.05 2735	B 0.06 2735
5	B 0.19 114	B 0.21 114	B 0.13 159	B 0.09 159	B 0.06 160	B 0.06 159	B 0.06 159	B 0.09 160
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	A 0.05 72	A 0.09 72	A 0.04 72	A 0.03 72	A 0.02 72	A 0. 72	A 0.01 72	A 0.02 72
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.119 $4_Trig_functions\backslash 4.3bCosecant\backslash 4.3.1.3(dcos)^n(a+bcsc)^m$

Table 121: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.06 172	B 0.1 133	B 0.05 133	B 0.02 133	B 0.02 133	B 0.02 133	B 0.01 133	B 0.02 133

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Table 121 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
2	A 0.04 18	A 0.09 18	A 0.04 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
3	A 0.05 33	A 0.1 33	A 0.06 33	A 0.03 33	A 0.02 33	A 0.02 33	A 0. 33	A 0. 33
4	A 0.06 89	A 0.1 89	A 0.06 89	A 0.03 89	A 0.02 89	A 0.02 89	A 0.01 89	A 0.02 89
5	B 0.06 200	B 0.1 200	B 0.06 200	B 0.03 200	B 0.02 200	B 0.02 200	B 0.01 200	B 0.02 200

2.120 $4_Trig_functions\4.3bCosecant\4.3.1.4(dcot)^n(a+bcsc)^m$

Table 122: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	B 0.06 102	B 0.11 102	B 0.07 102	B 0.02 102	B 0.01 102	B 0.02 102	B 0.01 102	B 0.02 102
2	A 0.05 19	A 0.1 19	A 0.05 19	A 0.01 19	A 0. 19	A 0.02 19	A 0. 19	A 0. 19
3	A 0.07 55	A 0.12 55	A 0.07 55	A 0.02 55	A 0.01 55	A 0. 55	A 0. 55	A 0. 55
4	A 0.03 21	A 0.07 21	A 0.03 21	A 0.02 21	A 0.02 21	A 0.01 21	A 0. 21	A 0. 21
5	B 0.06 363	B 0.12 363	B 0.08 363	B 0.03 363	B 0.03 363	B 0.03 363	B 0.01 363	B 0.02 363

2.121 $4_Trig_functions\4.3bCosecant\4.3.3.1(a+bcsc)^m(dcsc)^n(A+Bcsc)$

Table 123: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.12 99	A 0.1 109	A 0.06 109	A 0.01 109	A 0. 109	A 0. 109	A 0. 109	A 0.02 109
2	A 0.1 49	A 0.14 49	A 0.09 49	A 0.03 49	A 0. 49	A 0.02 49	A 0. 49	A 0. 49
3	A 0.03 40	A 0.08 40	A 0.02 40	A 0.01 40	A 0. 40	A 0.02 40	A 0. 40	A 0. 40
4	A 0.02 44	A 0.06 46	A 0.02 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
5	A 0.05 62	A 0.1 62	A 0.05 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70	A 0.02 70

2.122 $4_Trig_functions\4.3bCosecant\4.3.4.2(a+bcsc)^m(dcsc)^n(A+Bcsc+Ccsc^2)$

Table 124: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.14	393	B	0.18	393	B	0.12	394	B	0.09	394	B	0.06	394	B	0.06	394	B	0.07	394	B	0.06	393

2.123 $4_Trig_functions\4.3bCosecant\4.3.7(dtrig)^m(a+b(ccsc)^n)^p$

Table 125: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.07	129	A	0.09	165	A	0.03	200	A	0.	200	A	0.	200	A	0.	200	A	0.	200	A	0.	200
2	A	0.03	47	A	0.08	65	A	0.02	70	A	0.	70	A	0.	70	A	0.	70	A	0.	70	A	0.02	70
3	A	0.05	50	A	0.1	50	A	0.05	50	A	0.02	50	A	0.02	50	A	0.02	50	A	0.01	50	A	0.02	50
4	B	0.29	419	B	0.48	419	B	0.33	512	B	0.23	512	B	0.19	512	B	0.19	512	B	0.16	512	B	0.19	512
5	B	2.12	4815	B	2.26	4815	B	2.21	5855	B	2.08	5855	B	1.98	5855	B	2.03	5855	B	1.57	5855	B	0.95	5855
6	B	0.11	75	B	0.24	75	B	0.1	87	B	0.1	87	B	0.08	87	B	0.08	87	B	0.06	87	B	0.08	87

2.124 $4_Trig_functions\4.4Miscellaneous\4.4.1(ctrig)^m(dtrig)^n$

Table 126: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.06	97	A	0.06	97	A	0.06	97	A	0.02	97	A	0.01	97	A	0.01	97	A	0.01	97
2	A	0.01	41	A	0.01	41	A	0.01	41	A	0.01	41	A	0.	41	A	0.	41	A	0.	41
3	A	0.04	20	A	0.04	20	A	0.05	20	A	0.02	20	A	0.01	20	A	0.01	20	A	0.01	20

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0			
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade
4	B	0.03	86	B	0.03	86	B	0.03	86	B	0.02	86	B	0.01	86	B	0.01	86	B	0.01	86	B
5	A	0.03	47	A	0.03	47	A	0.02	47	A	0.02	47	A	0.01	47	A	0.01	47	A	0.	47	A
6	A	0.09	12	A	0.09	20	B	0.17	37	B	0.06	39	B	0.02	39	B	0.02	39	B	0.01	39	B
7	A	0.08	51	A	0.07	59	B	0.24	78	B	0.08	79	B	0.03	79	B	0.03	79	B	0.02	79	B
8	A	0.04	32	A	0.04	32	A	0.04	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.01	32	A
9	A	0.08	38	A	0.08	40	A	0.06	40	A	0.02	40	A	0.01	40	A	0.01	40	A	0.01	40	A
10	A	0.04	35	A	0.04	35	A	0.04	27	A	0.02	35	A	0.01	35	A	0.01	35	A	0.01	35	A
11	A	0.02	12	A	0.02	12	A	0.02	12	A	0.01	12	A	0.01	12	A	0.01	12	A	0.	12	A
12	A	0.08	83	A	0.07	83	A	0.21	129	A	0.11	129	A	0.07	129	A	0.06	129	A	0.04	129	A
13	A	0.05	53	A	0.05	53	A	0.05	37	A	0.02	53	A	0.02	53	A	0.01	53	A	0.01	53	A
14	A	0.04	35	A	0.05	35	A	0.05	27	A	0.02	35	A	0.01	35	A	0.01	35	A	0.01	35	A
15	A	0.05	78	A	0.05	78	A	0.08	103	A	0.03	78	A	0.02	78	A	0.01	78	A	0.01	78	A
16	B	1.93	10113670	B	2.11	10113670	B	1.94	10113670	B	1.48	10113670	B	1.66	10113670	B	1.68	10113670	C	1.22	10113670	C
17	B	6.92	135	B	7.22	135	B	1.85	135	B	1.77	135	B	2.02	135	B	2.08	135	B	6.83	135	B
18	C	0.22	315782	C	0.24	315782	C	0.28	315782	C	0.38	315782	C	0.26	315782	C	0.26	315782	C	0.19	315782	C
19	B	4.65	180	B	4.75	180	B	1.19	180	B	1.16	180	B	1.3	180	B	1.35	180	B	5.57	180	B
20	B	47.	544	B	55.46	544	B	5.6	544	B	25.4	544	B	28.86	544	B	47.9	544	F	0	0	F
21	B	0.83	11507301	B	0.9	11507301	B	0.9	11507301	B	0.93	11507306	B	1.07	11507306	B	1.07	11507325	C	0.82	11507325	C
22	B	2.7	43437450	B	3.39	43437450	F	0	0	B	3.1	43437466	B	3.14	43437466	B	3.24	43437466	F	0	0	F
23	B	1.23	16302665	B	1.4	16302665	B	1.79	16302665	B	1.44	16302670	B	1.59	16302670	B	2.29	16302670	C	2.92	16302670	C
24	B	0.23	979404	B	0.24	979404	B	0.26	979404	B	0.3	979427	B	0.33	979427	B	0.53	979427	C	0.28	979427	C
25	B	3.62	372	B	3.7	372	B	1.3	372	B	1.71	372	B	1.71	372	B	1.68	372	B	7.56	372	B
26	B	6.11	329	B	6.47	329	B	2.42	329	B	2.93	329	B	2.49	329	B	4.12	329	B	26.49	329	B
27	B	22.1	577	B	24.98	577	B	10.67	577	B	10.77	577	B	11.05	577	B	21.85	577	F	0	0	F
28	A	0.03	75	A	0.03	75	A	0.03	75	A	0.02	75	A	0.01	75	A	0.01	75	A	0.	75	A
29	A	0.02	47	A	0.02	47	A	0.01	47	A	0.01	47	A	0.	47	A	0.	47	A	0.	47	A
30	A	0.05	69	A	0.05	69	B	0.13	115	B	0.08	115	B	0.04	115	B	0.08	115	B	0.03	115	B
31	C	0.39	475668	C	0.46	475668	C	0.15	475668	C	0.19	475667	C	0.21	475667	C	0.29	475668	C	0.19	475668	C

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Table 126 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0			
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade
32	B	8.12	207	B	10.24	207	B	1.09	207	B	1.12	207	B	1.28	207	B	1.62	207	B	9.5	207	E
33	B	36.76	456	B	66.54	456	B	6.99	456	B	9.95	456	B	9.21	456	B	27.57	456	B	69.25	456	E
34	B	9.76	372	B	10.53	372	B	2.07	372	B	3.82	372	B	3.69	372	B	6.52	372	B	16.91	372	E
35	B	0.58	785411	B	0.58	785411	B	0.27	785411	B	0.3	785421	B	0.33	785421	B	0.33	785423	C	0.28	785423	C
36	B	51.18	293	B	55.87	293	B	12.52	293	B	21.23	293	B	24.	293	B	49.02	293	B	34.98	293	E
37	C	0.08	315	C	0.08	315	C	0.07	315	C	0.06	315	C	0.04	315	C	0.04	315	C	0.03	315	C
38	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F
40	A	0.02	40	A	0.02	40	A	0.02	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.	40	A
41	B	3.75	321	B	4.96	321	B	7.86	321	B	2.38	321	B	0.24	321	B	0.28	389	B	0.02	321	E
42	A	0.02	40	A	0.02	40	A	0.02	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.	40	A
43	B	2.42	14825	B	2.65	49551	B	3.87	49551	B	1.3	49551	B	0.4	49551	B	0.45	49651	B	0.12	49551	E
44	B	10.01	97703	B	13.41	308687	B	18.15	308687	B	14.91	308687	B	6.3	308687	B	6.01	298811	B	0.66	298391	E
45	A	0.04	83	A	0.04	83	A	0.03	83	A	0.02	89	A	0.01	89	A	0.01	89	A	0.	89	A
46	A	0.03	127	A	0.03	127	A	0.03	127	A	0.02	127	A	0.01	127	A	0.01	127	A	0.01	127	A
47	A	0.04	184	A	0.04	184	A	0.03	184	A	0.02	190	A	0.01	190	A	0.01	190	A	0.01	190	A
48	B	0.27	325	B	0.28	325	B	0.29	325	B	0.13	325	B	0.06	325	B	0.06	473	B	0.02	325	E
49	A	0.02	40	A	0.02	40	A	0.01	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.	40	A
50	A	0.06	184	A	0.05	184	A	0.04	184	A	0.03	190	A	0.01	190	A	0.01	190	A	0.01	190	A

2.125 $4_Trig_functions\backslash4.4Miscellaneous\backslash4.4.2trig^m(atrig+btrig)^n$

Table 127: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade		
1	A	0.06	28	A	0.06	28	A	0.02	29	A	0.01	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
2	A	0.05	20	A	0.06	20	A	0.02	24	A	0.01	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24

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Table 127 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
3	A 0.02 21	A 0.06 21	A 0.01 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
4	B 0.1 173	A 0.12 135	A 0.07 135	A 0.04 135	A 0.02 135	A 0.02 135	A 0.01 135	A 0.02 135
5	A 0.06 35	A 0.1 35	A 0.05 35	A 0.02 35	A 0. 35	A 0. 35	A 0.01 35	A 0. 35
6	B 0.09 107	B 0.13 107	B 0.07 107	B 0.04 107	B 0.02 107	B 0.01 107	B 0.01 107	B 0. 107
7	A 0.1 97	A 0.14 97	A 0.08 97	A 0.03 97	A 0. 97	A 0.01 97	A 0.01 97	A 0. 97
8	B 0.15 224	B 0.18 513	B 0.11 513	B 0.05 513	B 0.02 513	B 0.02 513	B 0.01 513	B 0.02 513
9	A 0.17 73	A 0.22 73	A 0.11 73	A 0.05 73	A 0.03 73	A 0.02 73	A 0.01 73	A 0. 73
10	A 0.19 151	A 0.23 151	A 0.13 151	A 0.05 151	A 0.02 151	A 0.02 151	A 0.01 151	A 0.02 151
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.08 52	A 0.08 52	A 0.03 57	A 0.01 57	A 0.02 57	A 0. 57	A 0. 57	A 0. 57
13	A 0.08 24	A 0.12 24	A 0.05 24	A 0.03 24	A 0. 24	A 0.02 24	A 0. 24	A 0.02 24
14	A 0.07 70	A 0.11 70	A 0.04 70	A 0.01 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70
15	A 0.17 189	A 0.17 191	A 0.09 191	A 0.04 191	A 0.01 191	A 0.02 191	A 0. 191	A 0. 191
16	A 0.15 125	A 0.14 125	A 0.05 145	A 0.02 145	A 0. 145	A 0. 145	A 0. 145	A 0. 145
17	A 0.09 75	A 0.13 75	A 0.05 91	A 0.02 91	A 0. 91	A 0. 91	A 0. 91	A 0. 91
18	A 0.16 126	A 0.2 126	A 0.1 126	A 0.04 126	A 0. 126	A 0.01 126	A 0. 126	A 0.02 126
19	A 0.2 127	A 0.21 136	A 0.1 141	A 0.04 141	A 0. 141	A 0.02 141	A 0. 141	A 0.02 141
20	A 0.1 142	A 0.14 142	A 0.05 162	A 0.02 162	A 0.02 162	A 0. 162	A 0. 162	A 0. 162
21	A 0.16 163	A 0.21 163	A 0.09 163	A 0.04 163	A 0.02 163	A 0. 163	A 0.01 163	A 0. 163
22	A 0.18 210	A 0.22 210	A 0.1 210	A 0.04 210	A 0.02 210	A 0. 210	A 0. 210	A 0. 210
23	A 0.19 394	A 0.24 396	A 0.12 396	A 0.05 396	A 0. 396	A 0.01 396	A 0. 396	A 0.02 396
24	A 0.19 491	A 0.24 493	A 0.12 493	A 0.05 493	A 0.02 493	A 0.01 493	A 0. 493	A 0. 493
25	A 0.22 272	A 0.23 272	A 0.1 272	A 0.04 272	A 0.02 272	A 0.01 272	A 0. 272	A 0. 272
26	A 0.29 688	A 0.28 690	A 0.14 690	A 0.05 690	A 0. 690	A 0.01 690	A 0.01 690	A 0. 690
27	A 0.28 299	A 0.27 308	A 0.12 319	A 0.04 319	A 0. 319	A 0. 319	A 0. 319	A 0. 319
28	A 0.15 90	A 0.18 116	A 0.09 116	A 0.04 116	A 0.02 116	A 0.02 116	A 0.01 116	A 0.02 116
29	A 0.19 162	A 0.24 162	A 0.13 162	A 0.04 162	A 0. 162	A 0.01 162	A 0.01 162	A 0.02 162
30	A 0.23 172	B 0.26 462	B 0.14 462	B 0.05 462	B 0.03 462	B 0.02 462	B 0.01 462	B 0.02 462

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Table 127 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
31	A 0.27 191	B 0.3 450	B 0.15 450	B 0.03 450	B 0.02 450	B 0.02 450	B 0.01 450	B 0.02 450
32	A 0.34 184	A 0.4 184	A 0.24 184	A 0.05 184	A 0.02 184	A 0. 184	A 0.01 184	A 0.02 184
33	B 0.32 494	B 0.36 767	B 0.19 767	B 0.05 767	B 0.02 767	B 0.02 767	B 0.01 767	B 0.02 767
34	A 0.26 21	A 0.3 21	A 0.15 21	A 0.03 21	A 0. 21	A 0. 21	A 0. 21	A 0. 21
35	A 0.16 98	A 0.19 98	A 0.11 98	A 0.05 98	A 0.03 98	A 0.02 98	A 0.02 98	A 0.03 104
36	B 0.2 258	B 0.25 258	B 0.16 258	B 0.06 258	B 0.03 258	B 0.03 258	B 0.02 258	B 0.03 258
37	A 0.17 117	A 0.21 117	A 0.12 117	A 0.05 117	A 0.03 117	A 0.02 117	A 0.02 117	A 0.02 125
38	A 0.23 47	A 0.29 47	A 0.16 47	A 0.04 47	A 0.02 47	A 0.02 47	A 0. 47	A 0. 47
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	B 0.11 15	B 0.16 15	B 0.1 15	B 0.04 15	B 0.01 15	B 0.01 15	B 0. 15	B 0. 15
41	A 0.07 13	A 0.12 13	A 0.07 13	A 0.03 13	A 0.01 13	A 0.01 13	A 0. 13	A 0. 13
42	A 0.1 8	A 0.15 8	A 0.11 12	A 0.04 12	A 0.02 12	A 0.01 12	A 0. 12	A 0.02 12
43	A 0.06 9	A 0.1 9	A 0.06 9	A 0.02 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
44	A 0.04 17	A 0.08 17	A 0.03 17	A 0.03 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
45	A 0.05 14	A 0.09 14	A 0.03 14	A 0.04 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
46	A 0.01 31	A 0.05 31	A 0. 31	A 0. 31	A 0.02 31	A 0. 31	A 0. 31	A 0. 31
47	A 0.03 28	A 0.07 28	A 0.05 28	A 0.02 28	A 0.02 28	A 0. 28	A 0. 28	A 0.02 28
48	A 0.07 100	A 0.12 100	A 0.05 106	A 0.02 106	A 0.02 106	A 0. 106	A 0. 106	A 0. 106
49	A 0.08 213	A 0.14 213	A 0.07 213	A 0.03 213	A 0.02 213	A 0.02 213	A 0.01 213	A 0. 213
50	A 0.12 80	A 0.18 80	A 0.06 80	A 0.04 80	A 0.03 80	A 0.02 80	A 0.01 80	A 0.02 80
51	A 0.16 155	A 0.21 223	A 0.13 223	A 0.06 223	A 0.03 223	A 0.03 223	A 0.01 223	A 0.02 223
52	A 0.24 324	A 0.29 324	A 0.19 324	A 0.09 324	A 0.03 324	A 0.03 324	A 0.02 324	A 0.02 324
53	A 0.22 251	A 0.28 251	A 0.19 251	A 0.08 251	A 0.03 251	A 0.03 251	A 0.01 251	A 0.02 251
54	A 0.09 168	B 0.14 354	B 0.08 354	B 0.05 354	B 0.03 354	B 0.03 414	B 0.02 414	B 0.03 414
55	A 0.11 120	A 0.15 120	A 0.09 120	A 0.04 120	A 0.02 120	A 0.02 120	A 0.01 120	A 0. 120
56	A 0.12 243	A 0.16 214	A 0.1 214	A 0.04 214	A 0.01 214	A 0.02 214	A 0.01 214	A 0.02 214
57	B 0.12 260	A 0.16 251	A 0.1 251	A 0.04 251	A 0.03 251	A 0.02 251	A 0.01 251	A 0.02 251
58	A 0.09 63	A 0.14 63	A 0.1 63	A 0.04 63	A 0.02 63	A 0.02 63	A 0.01 63	A 0. 63

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Table 127 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
59	A 0.1 49	A 0.14 49	A 0.07 49	A 0.03 49	A 0.02 49	A 0.02 49	A 0.01 49	A 0.02 49

2.126 4_Trig_functions\4.4Miscellaneous\4.4.3(c+dx)^mtrig^ntrig^p

Table 128: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.04 853	B 0.05 853	B 0.02 853	B 0.02 853	B 0. 853	B 0.01 853	B 0.01 853	B 0.02 853
2	B 0.01 466	B 0.05 466	B 0.01 466	B 0. 466	B 0. 466	B 0. 466	B 0. 466	B 0. 466
3	A 0.01 74	A 0.05 74	A 0.01 74	A 0. 74	A 0. 74	A 0. 74	A 0. 74	A 0. 74
4	A 0.02 162	A 0.06 162	A 0.01 162	A 0.03 162	A 0. 162	A 0.01 162	A 0.01 162	A 0. 162
5	A 0.01 15	A 0.05 15	A 0.01 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
6	A 0.01 85	A 0.06 85	A 0.01 90	A 0.01 90	A 0.02 90	A 0. 90	A 0. 90	A 0. 90
7	A 0.02 178	A 0.06 178	A 0.01 178	A 0.01 178	A 0.02 178	A 0.02 178	A 0. 178	A 0. 178
8	A 0.02 329	A 0.06 329	A 0.02 329	A 0.01 329	A 0.02 329	A 0.01 329	A 0.01 329	A 0. 329
9	B 0.21 1150	B 0.28 1150	B 0.15 1150	B 0.13 1150	B 0.09 1150	B 0.1 1150	B 0.08 1150	B 0.11 1150
10	B 0.09 215	B 0.19 215	B 0.08 215	B 0.03 215	B 0.03 215	B 0.03 215	B 0.03 215	B 0.02 215
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0.03 95	B 0.07 140	B 0.02 140	B 0.01 140	B 0. 140	B 0.01 140	B 0.01 140	B 0. 140
14	A 0.02 142	A 0.06 142	A 0.02 141	A 0.02 141	A 0.02 141	A 0. 141	A 0.01 141	A 0.02 141
15	A 0.04 294	A 0.09 294	A 0.05 294	A 0.04 294	A 0.02 294	A 0.02 294	A 0.02 294	A 0.02 294
16	A 0.04 386	A 0.09 386	A 0.05 386	A 0.03 386	A 0.02 386	A 0.02 386	A 0.02 386	A 0.02 386
17	A 0.04 470	A 0.09 470	A 0.06 477	A 0.04 477	A 0.03 477	A 0.02 477	A 0.02 477	A 0.03 477
18	A 0.02 381	A 0.06 381	A 0.01 381	A 0.01 381	A 0.02 381	A 0.01 381	A 0.01 381	A 0.02 381
19	B 0.17 1915	B 0.12 1915	B 0.05 1944	B 0.04 1944	B 0. 1944	B 0.01 1944	B 0.01 1944	B 0.02 1944
20	B 0.02 1074	B 0.06 1074	B 0.01 1091	B 0.01 1091	B 0. 1091	B 0.01 1091	B 0. 1091	B 0.02 1091

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Table 128 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
21	A 0.02 193	A 0.06 193	A 0.02 193	A 0.01 193	A 0.02 193	A 0.02 193	A 0.01 193	A 0. 193
22	B 0.26 1295	B 0.33 1295	B 0.24 1295	B 0.18 1295	B 0.17 1295	B 0.2 1295	B 0.14 1295	B 0.22 1295
23	A 0.02 76	A 0.07 76	A 0.02 76	A 0.01 76	A 0.02 76	A 0.01 76	A 0.01 76	A 0.03 76
24	B 0.11 1056	B 0.16 1056	B 0.1 1056	B 0.09 1056	B 0.09 1056	B 0.09 1056	B 0.08 1056	B 0.05 1056
25	B 0.09 546	B 0.14 546	B 0.08 546	B 0.07 546	B 0.06 546	B 0.07 546	B 0.06 546	B 0.08 546
26	A 0.03 296	A 0.07 296	A 0.03 303	A 0.02 303	A 0.02 303	A 0.01 303	A 0.01 303	A 0.02 303
27	A 0.05 719	A 0.1 719	A 0.07 732	A 0.04 732	A 0.03 732	A 0.03 732	A 0.03 732	A 0.02 732
28	B 0.02 260	B 0.06 260	B 0.01 275	B 0.01 275	B 0. 275	B 0. 275	B 0. 275	B 0. 275
29	A 0.02 256	A 0.06 256	A 0.02 256	A 0.01 256	A 0.02 256	A 0.01 256	A 0.01 256	A 0. 256
30	B 0.06 1842	B 0.08 1842	B 0.04 2118	B 0.03 2118	B 0.02 2118	B 0.01 2118	B 0.01 2118	B 0.02 2118
31	A 0.02 473	A 0.06 473	A 0.02 473	A 0.01 473	A 0.02 473	A 0. 473	A 0.01 473	A 0.02 473
32	A 0.02 583	A 0.07 583	A 0.02 583	A 0.01 583	A 0. 583	A 0.01 583	A 0.01 583	A 0. 583
33	B 0.14 2061	B 0.1 2061	B 0.06 2061	B 0.03 2061	B 0.02 2061	B 0. 2061	B 0.01 2061	B 0. 2061
34	B 0.02 1100	B 0.06 1100	B 0.02 1078	B 0.01 1078	B 0. 1078	B 0. 1078	B 0. 1078	B 0. 1078
35	A 0.02 178	A 0.06 178	A 0.02 178	A 0.01 178	A 0.01 178	A 0.02 178	A 0. 178	A 0. 178
36	B 0.42 1492	B 0.56 1492	B 0.56 1492	B 0.28 1492	B 0.27 1492	B 0.24 1492	B 0.21 1492	B 0.33 1492
37	B 0.18 649	B 0.24 649	B 0.18 649	B 0.14 649	B 0.14 649	B 0.14 649	F 0 0	B 0.45 649
38	A 0.03 376	A 0.08 376	A 0.03 383	A 0.02 383	A 0.02 383	A 0.02 383	A 0.01 383	A 0.02 383
39	A 0.03 286	A 0.07 286	A 0.03 293	A 0.02 293	A 0.02 293	A 0.01 293	A 0.01 293	A 0.02 293
40	A 0.04 477	A 0.09 477	A 0.06 484	A 0.04 484	A 0.02 484	A 0.02 484	A 0.02 484	A 0.03 484
41	A 0. 477	A 0.04 477	A 0. 484	A 0. 484	A 0.02 484	A 0.02 484	A 0. 484	A 0.02 484
42	A 0.11 107	A 0.16 107	A 0.13 107	A 0.08 107	A 0.06 107	A 0.06 107	A 0.05 107	A 0.08 107
43	B 0.13 257	B 0.22 257	B 0.1 257	B 0.07 257	B 0.05 257	B 0.05 257	B 0.04 257	B 0.06 257
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	B 0.27 512	B 0.28 512	B 0.3 512	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	B 0.25 641	B 0.46 641	B 0.4 641	B 0.29 641	B 0.3 641	B 0.26 641	B 0.22 641	B 1.11 641

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Table 128 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	B 0.14 1242	B 0.21 1242	B 0.14 1242	B 0.13 1242	B 0.12 1242	B 0.13 1242	B 0.1 1242	B 0.14 1242
52	C 0.58 1158	C 0.67 1158	C 0.52 1158	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	C 0.3 556	C 0.38 556	C 0.31 556	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
56	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	C 0.38 429	C 0.32 429	C 0.23 429	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	B 0.08 489	B 0.13 489	B 0.08 489	B 0.07 489	B 0.08 489	B 0.06 489	B 0.06 489	B 0.09 489
64	B 0.07 301	B 0.12 301	B 0.07 301	B 0.06 301	B 0.06 301	B 0.06 301	B 0.05 301	B 0.11 301
65	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
66	C 0.1 267	C 0.14 267	C 0.09 267	C 0.08 267	C 0.09 267	C 0.08 267	C 0.06 267	C 0.26 267
67	B 0.09 720	B 0.18 720	B 0.09 720	B 0.08 720	B 0.08 720	B 0.08 720	B 0.07 720	B 0.17 720
68	B 0.08 270	B 0.14 270	B 0.08 270	B 0.07 270	B 0.06 270	B 0.06 270	B 0.05 270	B 0.09 270
69	C 0.59 1629	C 0.69 1629	C 0.58 1629	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	A 0.06 107	A 0.1 107	A 0.05 107	A 0.03 107	A 0.03 107	A 0.02 107	A 0.02 107	A 0.02 107
76	A 0.05 58	A 0.1 58	A 0.05 58	A 0.03 58	A 0.01 58	A 0.02 58	A 0.01 58	A 0.03 58

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Table 128 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
77	A 0.04 119	A 0.08 119	A 0.03 119	A 0.02 119	A 0. 119	A 0.01 119	A 0.01 119	A 0.02 119
78	A 0.04 87	A 0.08 87	A 0.04 87	A 0.02 87	A 0.02 87	A 0.02 87	A 0.01 87	A 0. 87
79	A 0.04 15	A 0.08 15	A 0.04 15	A 0.03 15	A 0.02 15	A 0.02 15	A 0.01 15	A 0. 15
80	C 0.14 102	C 0.2 102	C 0.1 102	C 0.12 102	C 0.08 102	C 0.08 102	C 0.06 102	C 0.16 102

2.127 $4_Trig_functions\backslash 4.4Miscellaneous\backslash 4.4.4x^m(a+btrig^n)^p$

Table 129: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	C 0.18 72	C 0.14 72	C 0.11 74	C 0.09 74	C 0.04 74	C 0.08 74	C 0.04 74	C 0.14 74
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	C 0.09 75	C 0.12 75	C 0.07 75	C 0.07 75	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	C 0.28 446	C 0.32 446	C 0.49 454	C 0.25 454	C 0.19 454	C 0.17 454	C 0.14 454	C 0.44 454

2.128 $4_Trig_functions\backslash 4.4Miscellaneous\backslash 4.4.5x^mtrig(a+b\log(cx^n))^p$

Table 130: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 130 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
5	A 0.02 52	A 0.05 52	A 0.01 52	A 0.01 52	A 0. 52	A 0. 52	A 0. 52	A 0. 52
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0.02 84	A 0.06 84	A 0.02 84	A 0.01 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	B 0.14 173	B 0.13 173	B 0.08 173	B 0.16 173	B 0.05 173	B 0.08 173	B 0.04 173	B 0.28 189
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	A 0.04 102	A 0.09 102	A 0.03 102	A 0.02 102	A 0.01 102	A 0.02 102	A 0.01 102	A 0.02 102
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	C 0.14 244	C 0.22 244	C 0.16 244	C 0.34 244
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	C 0.28 501	C 0.36 501	C 0.29 501	C 0.39 501
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	A 0.03 61	A 0.05 61	A 0.01 61	A 0.02 61	A 0.02 61	A 0.01 61	A 0. 61	A 0.02 61
30	A 0.03 161	A 0.08 161	A 0.03 161	A 0.03 161	A 0.02 161	A 0.02 161	A 0.02 161	A 0.02 161
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 130 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
33	A 0.01 32	A 0.05 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	A 0.02 19	A 0.06 32	A 0.01 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	B 0.14 308	B 0.1 308	B 0.04 308	B 0.03 308	B 0.01 308	B 0.03 308	B 0.04 308	B 0.03 308
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	A 0.02 20	A 0.06 33	A 0.01 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	C 0.18 235	C 0.19 239	C 0.13 235	C 0.19 239	C 0.08 235	C 0.11 239	C 0.09 239	C 0.09 239
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	A 0.07 129	A 0.09 129	A 0.03 129	A 0.02 129	A 0.02 129	A 0.02 129	A 0.01 129	A 0. 126
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	A 0.06 133	A 0.07 133	A 0.01 133	A 0.01 133	A 0.02 133	A 0.02 133	A 0.01 133	A 0.02 133

2.129 4_Trig_functions\4.4Miscellaneous\4.4.6f^(a+bx+cx^2)trig(dx+fx^2)^n

Table 131: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.18 336	A 0.24 336	A 0.17 336	B 0.22 483	B 0.22 483	B 0.2 483	B 0.18 483	B 0.31 483
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	C 0.42 343	C 0.55 343	C 0.33 343	C 0.33 343	C 0.31 343	C 0.34 343	C 0.26 319	C 0.36 319
8	B 0.07 293	B 0.13 293	B 0.06 293	B 0.06 293	B 0.05 293	B 0.06 293	B 0.04 293	B 0.09 293
9	A 0.03 71	A 0.07 71	A 0.02 71	A 0.02 71	A 0. 71	A 0.01 71	A 0.01 71	A 0.02 71
10	A 0.02 166	A 0.07 166	A 0.02 166	A 0.01 166	A 0. 166	A 0.01 166	A 0.01 166	A 0.02 166
11	A 0.01 30	A 0.05 30	A 0. 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
12	A 0.28 42	A 0.16 42	A 0.07 42	A 0.23 42	A 0.04 42	A 0.1 42	A 0.07 42	A 0.09 42
13	A 0.06 44	A 0.16 44	A 0.06 44	A 0.06 44	A 0.05 44	A 0.05 44	A 0.05 44	A 0.08 44
14	A 0.07 52	A 0.22 52	A 0.1 52	A 0.07 52	A 0.05 52	A 0.05 52	A 0.06 52	A 0.08 52
15	A 0.02 30	A 0.06 30	A 0.01 30	A 0.01 30	A 0. 30	A 0.02 30	A 0. 30	A 0. 30
16	A 0.03 5	A 0.07 5	A 0.01 5	A 0.01 5	A 0. 5	A 0. 5	A 0. 5	A 0. 5
17	A 0.03 25	A 0.07 25	A 0.02 25	A 0.02 25	A 0.02 25	A 0.02 25	A 0. 25	A 0. 25
18	A 0.01 4	A 0.06 4	A 0.01 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4	A 0. 4
19	A 0. 36	A 0.05 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
20	A 0.09 88	A 0.24 88	A 0.09 88	A 0.08 88	A 0.06 88	A 0.07 88	A 0.06 88	A 0.11 88
21	A 0.24 149	A 0.38 149	A 0.21 149	A 0.18 149	A 0.16 149	A 0.16 149	A 0.14 149	A 0.25 149
22	A 0.4 266	A 0.56 264	A 0.48 264	A 0.31 264	A 0.26 266	A 0.29 264	A 0.23 266	A 0.5 266
23	A 0.28 257	A 0.34 257	A 0.32 257	A 0.26 257	A 0.22 257	A 0.24 257	A 0.21 257	A 0.33 257
24	A 0.08 60	A 0.22 60	A 0.08 60	A 0.07 60	A 0.06 60	A 0.08 60	A 0.05 60	A 0.09 60
25	A 0.41 255	A 0.56 255	A 0.3 255	A 0.27 255	A 0.23 255	A 0.26 255	A 0.22 255	A 0.44 255
26	A 0.26 185	A 0.42 185	A 0.23 185	A 0.19 185	A 0.17 185	A 0.19 185	A 0.16 185	A 0.34 185
27	A 0.18 192	A 0.33 189	A 0.18 188	A 0.16 188	A 0.12 191	A 0.16 188	A 0.13 191	A 0.2 191

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Table 131 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.130 4_Trig_functions\4.4Miscellaneous\4.4.7Trigfunctions

Table 132: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 17	A 0.07 17	A 0.03 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
2	A 0.07 17	A 0.12 17	A 0.08 17	A 0.03 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
3	A 0.09 17	A 0.13 17	A 0.07 17	A 0.03 17	A 0. 17	A 0. 17	A 0. 17	A 0. 17
4	A 0.02 18	A 0.06 18	A 0.02 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
5	C 0.06 72	C 0.1 72	C 0.04 62	C 0.06 62	C 0.03 13	C 0.06 13	C 0.04 13	C 0.05 13
6	A 0.04 142	A 0.07 142	A 0.02 142	A 0.02 142	A 0.02 142	A 0.01 142	A 0.01 142	A 0. 142
7	A 0.02 195	A 0.07 195	A 0.02 195	A 0.01 195	A 0.02 195	A 0. 195	A 0.01 195	A 0. 195
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	A 0.01 25	A 0.06 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
10	A 0.04 195	A 0.08 195	A 0.03 195	A 0.02 195	A 0. 195	A 0.02 195	A 0.01 195	A 0. 195
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.02 12	A 0.07 12	A 0.02 12	A 0.01 12	A 0.01 12	A 0. 12	A 0. 12	A 0.02 12
13	A 0.06 14	A 0.1 14	A 0.04 14	A 0.03 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
14	A 0.07 18	A 0.11 18	A 0.06 18	A 0.03 18	A 0.02 18	A 0.01 18	A 0.01 18	A 0.02 18
15	A 0.2 84	A 0.28 84	A 0.19 84	A 0.1 84	A 0.05 84	A 0.05 84	A 0.03 84	A 0.03 84
16	A 0.16 70	A 0.21 70	A 0.17 70	A 0.12 70	A 0.08 70	A 0.09 70	A 0.05 70	A 0.06 70
17	A 0.04 13	A 0.07 13	A 0.02 13	A 0.02 13	A 0. 13	A 0. 13	A 0. 13	A 0. 13
18	A 0.03 12	A 0.05 12	A 0. 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
19	A 0.07 14	A 0.05 14	A 0. 14	A 0.03 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14

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Table 132 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
20	A	0.02	18	A	0.07	18	A	0.01	18	A	0.02	18	A	0.02	18	A	0.02	18	A	0.01	18	A	0.02	18
21	A	0.2	30	A	0.27	30	A	0.22	30	A	0.11	30	A	0.08	30	A	0.07	30	A	0.06	30	A	0.06	30
22	A	0.04	13	A	0.09	13	A	0.04	13	A	0.02	13	A	0.	13	A	0.01	13	A	0.	13	A	0.02	13
23	A	0.19	80	A	0.27	80	A	0.22	80	A	0.13	80	A	0.06	80	A	0.07	80	A	0.04	80	A	0.11	80
24	A	0.05	18	A	0.09	18	A	0.05	18	A	0.03	18	A	0.02	18	A	0.	18	A	0.01	18	A	0.02	18
25	A	0.06	28	A	0.12	28	A	0.07	28	A	0.03	28	A	0.03	28	A	0.02	28	A	0.02	28	A	0.02	28
26	A	0.08	18	A	0.14	18	A	0.08	18	A	0.06	18	A	0.01	18	A	0.01	18	A	0.	18	A	0.	18
27	A	0.02	24	A	0.06	24	A	0.01	24	A	0.01	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
28	A	0.26	55	A	0.34	55	A	0.31	55	A	0.1	55	A	0.02	54	A	0.01	55	A	0.01	57	A	0.02	57
29	B	0.44	324	B	0.37	324	B	0.17	1092	B	0.37	1092	B	0.26	1092	B	0.28	1092	B	0.3	1092	B	0.19	1092
30	A	0.15	20	A	0.15	20	A	0.09	20	A	0.06	20	A	0.05	20	A	0.05	20	A	0.05	20	A	0.03	20
31	C	0.4	159	C	0.42	159	C	0.36	159	C	0.22	159	C	0.17	159	C	0.2	159	C	0.16	159	C	0.45	159
32	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
33	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
34	A	0.07	52	A	0.13	52	A	0.08	52	A	0.03	52	A	0.02	52	A	0.	52	A	0.	52	A	0.	52
35	A	0.05	95	A	0.1	95	A	0.06	95	A	0.03	95	A	0.	95	A	0.	95	A	0.01	95	A	0.02	95
36	A	0.05	119	A	0.1	119	A	0.06	119	A	0.03	119	A	0.02	119	A	0.01	119	A	0.01	119	A	0.02	119
37	B	0.14	284	B	0.15	284	B	0.1	284	B	0.09	284	B	0.03	284	B	0.06	284	B	0.05	284	B	0.12	284
38	B	0.1	336	B	0.15	336	B	0.1	336	B	0.07	336	B	0.05	336	B	0.05	336	B	0.04	336	B	0.09	336
39	A	0.04	16	A	0.09	16	A	0.04	16	A	0.02	16	A	0.01	16	A	0.	16	A	0.01	16	A	0.03	16
40	A	0.06	42	A	0.12	42	A	0.08	42	A	0.04	42	A	0.02	42	A	0.02	42	A	0.01	42	A	0.	42
41	B	0.06	84	B	0.12	84	B	0.08	84	B	0.04	84	B	0.02	84	B	0.02	84	B	0.01	84	B	0.02	84
42	A	0.06	120	A	0.11	120	A	0.06	120	A	0.03	120	A	0.02	120	A	0.02	120	A	0.01	120	A	0.02	120
43	A	0.16	285	A	0.18	285	B	0.07	312	B	0.02	312	B	0.	312	B	0.	312	B	0.	312	B	0.02	312
44	A	0.14	175	A	0.18	175	B	0.06	209	B	0.02	209	B	0.	209	B	0.	209	B	0.	209	B	0.	209
45	A	0.1	153	A	0.15	153	A	0.05	163	A	0.02	163	A	0.02	163	A	0.	163	A	0.	163	A	0.	163
46	A	0.	75	A	0.05	75	A	0.	91	A	0.	91	A	0.	91	A	0.	91	A	0.	91	A	0.	91
47	A	0.11	151	A	0.13	151	A	0.07	151	A	0.07	151	A	0.03	151	A	0.04	151	A	0.05	151	A	0.08	151

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
48	A	0.12	158	A	0.14	158	A	0.07	158	A	0.09	158	A	0.05	158	A	0.05	158	A	0.04	158	A	0.08	158
49	A	0.04	31	A	0.09	31	A	0.02	31	A	0.01	31	B	0.22	75	B	0.22	75	B	0.18	75	B	0.39	75
50	A	0.05	82	A	0.1	84	A	0.04	84	A	0.01	84	A	0.	84	A	0.	84	A	0.	84	A	0.	84
51	A	0.02	26	A	0.07	30	A	0.02	30	A	0.01	30	A	0.02	30	A	0.	30	A	0.	30	A	0.	30
52	A	0.18	130	A	0.24	130	A	0.12	130	A	0.03	130	A	0.02	130	A	0.	130	A	0.01	130	A	0.	130
53	A	0.02	15	A	0.06	20	A	0.02	20	A	0.01	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
54	A	0.08	6	A	0.13	6	A	0.07	6	A	0.02	6	A	0.	6	A	0.	6	A	0.	6	A	0.	6
55	A	0.13	17	A	0.18	17	A	0.12	17	A	0.02	17	A	0.02	17	A	0.	17	A	0.	17	A	0.	17
56	A	0.02	29	A	0.07	33	A	0.02	33	A	0.01	33	A	0.	33	A	0.	33	A	0.	33	A	0.02	33
57	A	0.07	8	A	0.12	8	A	0.06	8	A	0.02	8	A	0.	8	A	0.	8	A	0.	8	A	0.	8
58	A	0.1	17	A	0.16	17	A	0.11	17	A	0.03	17	A	0.	17	A	0.02	17	A	0.	17	A	0.	17
59	A	0.11	32	A	0.07	34	A	0.02	32	A	0.02	32	A	0.02	32	A	0.	32	A	0.	32	A	0.	32
60	A	0.06	14	A	0.12	14	A	0.06	14	A	0.04	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
61	A	0.21	26	A	0.2	26	A	0.14	26	A	0.12	26	A	0.08	26	A	0.1	26	A	0.09	26	A	0.06	26
62	A	0.03	40	A	0.07	49	A	0.03	35	A	0.02	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35
63	A	0.04	7	A	0.09	7	A	0.05	7	A	0.03	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
64	A	0.05	14	A	0.1	14	A	0.07	14	A	0.04	14	A	0.	14	A	0.01	14	A	0.	14	A	0.	14
65	A	0.06	20	A	0.11	20	A	0.07	20	A	0.04	20	A	0.02	20	A	0.	20	A	0.	20	A	0.	20
66	A	0.06	20	A	0.11	20	A	0.08	20	A	0.04	20	A	0.02	20	A	0.01	20	A	0.	20	A	0.02	20
67	A	0.07	26	A	0.11	26	A	0.09	26	A	0.05	26	A	0.	26	A	0.01	26	A	0.	26	A	0.	26
68	B	0.29	321	B	0.36	321	B	0.13	1089	B	0.3	1089	B	0.22	1089	B	0.22	1089	B	0.25	1089	B	0.06	1089
69	B	0.14	105	B	0.17	105	B	0.15	129	B	0.1	129	B	0.06	129	B	0.06	129	B	0.06	129	B	0.06	129
70	B	0.18	265	B	0.24	265	B	0.21	549	B	0.14	549	B	0.11	549	B	0.12	549	B	0.11	549	B	0.06	549
71	B	0.21	454	B	0.38	454	B	0.24	574	B	0.18	574	B	0.14	574	B	0.15	574	B	0.14	574	B	0.11	574
72	A	0.02	25	A	0.07	25	A	0.02	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.	25
73	A	0.08	56	A	0.13	56	A	0.07	56	A	0.04	56	A	0.02	56	A	0.02	56	A	0.01	56	A	0.02	56
74	A	0.01	36	A	0.06	36	A	0.01	36	A	0.01	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
75	A	0.08	101	A	0.13	101	A	0.06	101	A	0.03	103	A	0.	103	A	0.	103	A	0.	103	A	0.02	103

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
76	A	0.4	378	A	0.44	378	A	0.31	378	A	0.05	378	A	0.02	378	A	0.	378	A	0.01	378	A	0.	378
77	A	0.11	21	A	0.15	21	A	0.07	21	A	0.02	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
78	A	0.	30	A	0.05	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30	A	0.	30
79	B	0.25	166	B	0.3	166	B	0.14	166	B	0.04	166	B	0.02	166	B	0.02	166	B	0.01	166	B	0.02	166
80	B	0.39	1069	B	0.41	1069	B	0.24	1069	B	0.06	1069	B	0.03	1069	B	0.02	1069	B	0.02	1069	B	0.02	1069
81	A	0.12	177	A	0.16	177	A	0.06	193	A	0.02	193	A	0.	193	A	0.	193	A	0.	193	A	0.	193
82	A	0.15	61	A	0.19	61	A	0.09	61	A	0.02	61	A	0.02	61	A	0.01	61	A	0.01	61	A	0.	61
83	C	0.48	182	C	0.17	182	C	0.09	183	C	0.09	183	C	0.06	183	C	0.06	183	C	0.06	183	C	0.09	177
84	B	0.27	2602	B	0.32	2602	B	0.2	2602	B	0.18	2602	B	0.16	2602	C	9.3	211397	C	10.18	207433	C	20.42	211397
85	B	0.3	2682	B	0.33	2682	B	0.24	2682	B	0.23	2682	B	0.19	2682	C	0.52	26110	C	0.52	25610	C	0.52	26108
86	A	0.07	50	A	0.11	50	A	0.04	50	A	0.03	50	A	0.02	50	A	0.02	50	A	0.02	50	A	0.03	50
87	A	0.06	118	A	0.12	118	A	0.04	118	A	0.04	118	A	0.02	118	A	0.02	118	A	0.02	118	A	0.05	118
88	A	0.12	245	A	0.16	245	A	0.08	245	A	0.07	245	A	0.03	245	A	0.05	245	A	0.05	245	A	0.06	245
89	A	0.09	156	A	0.14	156	A	0.06	156	A	0.05	156	A	0.03	156	A	0.04	156	A	0.04	156	A	0.08	156
90	B	0.1	202	B	0.15	202	B	0.07	202	B	0.06	202	B	0.05	202	B	0.05	202	B	0.05	202	B	0.08	202
91	A	0.08	25	A	0.05	25	A	0.	25	A	0.03	25	A	0.	25	A	0.02	25	A	0.	25	A	0.	25
92	C	1.15	716	C	1.08	722	C	0.91	700	C	0.82	700	C	0.7	694	C	0.85	700	C	0.63	688	C	0.7	694
93	A	0.07	53	A	0.12	53	A	0.07	53	A	0.02	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.02	53
94	A	0.06	10	A	0.1	10	A	0.06	10	A	0.02	10	A	0.	10	A	0.	10	A	0.	10	A	0.02	10
95	C	1.02	691	C	1.04	703	C	0.86	685	C	0.76	685	C	0.72	683	C	0.84	685	C	0.65	669	C	0.66	683
96	C	1.74	62945	C	2.35	64193	C	1.83	64189	C	1.74	64189	C	1.9	64193	C	2.26	64189	C	2.04	62949	C	3.56	64193
97	A	0.06	48	A	0.1	48	A	0.07	48	A	0.04	48	A	0.02	48	A	0.01	48	A	0.01	48	A	0.02	48
98	A	0.06	27	A	0.12	28	A	0.08	28	A	0.04	28	A	0.03	28	A	0.02	28	A	0.01	28	A	0.	28
99	C	0.03	4	C	0.08	4	C	0.03	4	C	0.02	4	C	0.	4	C	0.	4	C	0.	4	C	0.	4
100	B	0.1	2556	B	0.15	2556	B	0.11	2556	B	0.08	2556	B	0.05	2556	B	0.07	2556	B	0.03	2556	B	0.05	2556
101	B	0.08	458	B	0.14	458	B	0.06	458	B	0.03	458	B	0.03	458	B	0.02	458	B	0.02	458	B	0.02	458
102	C	0.16	75	C	0.18	75	C	0.08	75	C	0.08	75	C	0.04	75	C	0.05	75	C	0.06	75	C	0.05	75
103	B	0.16	1118	B	0.23	1835	B	0.19	1835	B	0.07	1835	B	0.03	1835	B	0.04	1835	B	0.03	1835	B	0.03	1835

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
104	B	0.42	756	B	0.45	757	B	0.34	1041	B	0.23	1041	B	0.17	1041	B	0.19	1041	B	0.17	1041	B	0.17	1041
105	A	0.1	8	A	0.15	8	A	0.08	8	A	0.04	8	A	0.02	8	A	0.02	8	A	0.01	8	A	0.05	8
106	B	0.16	284	B	0.19	284	B	0.14	284	B	0.06	284	B	0.05	284	B	0.05	284	B	0.02	284	B	0.08	286
107	B	0.11	542	B	0.14	542	B	0.08	542	B	0.04	542	B	0.02	542	B	0.01	542	B	0.01	542	B	0.02	542
108	B	0.13	151	B	0.18	151	B	0.11	151	B	0.06	151	B	0.03	151	B	0.04	151	B	0.02	151	B	0.06	157
109	B	0.11	954	B	0.15	954	B	0.09	954	B	0.04	954	B	0.02	954	B	0.02	954	B	0.01	954	B	0.02	954
110	B	0.37	2913	B	0.39	2913	B	0.35	2913	B	0.28	2913	B	0.22	2913	C	0.92	52375	F	0	0	C	1.18	52375
111	B	0.1	178	B	0.14	178	B	0.06	178	B	0.03	178	B	0.02	178	B	0.02	178	B	0.02	178	B	0.02	178
112	A	0.	19	A	0.05	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19
113	C	0.5	66325	C	0.56	66325	C	0.35	66325	C	0.32	66325	C	0.28	66325	C	0.35	66325	C	0.3	66325	C	0.52	66325
114	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
115	A	0.01	21	A	0.05	21	A	0.	21	A	0.01	21	A	0.	21	A	0.	21	A	0.	21	A	0.	21
116	A	0.03	22	A	0.08	22	A	0.03	22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
117	A	0.03	4	A	0.07	4	A	0.02	4	A	0.02	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
118	A	0.01	11	A	0.06	11	A	0.01	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11	A	0.	11
119	A	0.02	17	A	0.06	17	A	0.01	17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
120	A	0.04	23	A	0.08	23	A	0.03	23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
121	A	0.04	4	A	0.08	4	A	0.04	4	A	0.01	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
122	A	0.07	5	A	0.12	5	A	0.07	5	A	0.02	5	A	0.	5	A	0.	5	A	0.	5	A	0.	5
123	A	0.09	80	A	0.14	80	A	0.06	80	A	0.02	80	A	0.	80	A	0.02	80	A	0.01	80	A	0.02	80
124	A	0.03	42	A	0.08	42	A	0.02	42	A	0.01	42	A	0.	42	A	0.	42	A	0.	42	A	0.	42
125	C	0.53	171	C	0.35	171	C	0.28	260	C	0.24	260	C	0.22	260	C	0.23	260	C	0.14	260	C	0.12	260
126	C	0.46	223	C	0.43	223	C	0.28	414	C	0.25	416	C	0.22	414	C	0.26	414	C	0.21	416	C	0.26	414
127	C	0.39	491	C	0.25	492	C	0.18	499	C	0.19	499	C	0.14	500	C	0.19	499	C	0.15	500	C	0.16	500
128	A	0.04	4	A	0.09	4	A	0.04	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4	A	0.	4
129	A	0.04	6	A	0.08	6	A	0.03	6	A	0.02	6	A	0.02	6	A	0.	6	A	0.	6	A	0.	6
130	B	0.04	25	B	0.08	25	A	0.03	14	A	0.03	14	A	0.02	14	A	0.02	14	A	0.02	14	A	0.05	14
131	A	0.02	13	A	0.06	13	A	0.01	13	A	0.01	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
132	A	0.02	6	A	0.06	6	A	0.02	6	A	0.01	6	A	0.	6	A	0.	6	A	0.	6	A	0.02	6
133	A	0.07	29	A	0.16	29	A	0.07	29	A	0.04	29	A	0.03	29	A	0.02	29	A	0.02	29	A	0.03	29
134	A	0.01	9	A	0.05	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
135	A	0.01	16	A	0.06	16	A	0.01	16	A	0.	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16
136	A	0.01	7	A	0.05	13	A	0.01	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
137	A	0.08	12	A	0.15	12	A	0.08	12	A	0.03	12	A	0.01	12	A	0.02	12	A	0.01	12	A	0.	12
138	A	0.02	16	A	0.06	16	A	0.02	16	A	0.02	16	A	0.	16	A	0.	16	A	0.	16	A	0.02	16
139	A	0.01	7	A	0.05	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
140	A	0.01	9	A	0.05	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9	A	0.	9
141	A	0.	7	A	0.05	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
142	A	0.01	18	A	0.05	18	A	0.01	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
143	A	0.02	13	A	0.05	13	A	0.	13	A	0.01	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
144	A	0.02	29	A	0.05	29	A	0.	29	A	0.01	29	A	0.	29	A	0.	29	A	0.	29	A	0.02	29
145	A	0.02	18	A	0.05	18	A	0.	18	A	0.01	18	A	0.	18	A	0.01	18	A	0.	18	A	0.	18
146	A	0.05	12	A	0.05	12	A	0.	12	A	0.02	12	A	0.02	12	A	0.01	12	A	0.01	12	A	0.	12
147	A	0.01	35	A	0.05	35	A	0.	35	A	0.01	35	A	0.	35	A	0.	35	A	0.	35	A	0.	35
148	A	0.04	8	A	0.09	13	A	0.04	13	A	0.02	13	A	0.01	13	A	0.	13	A	0.	13	A	0.	13
149	A	0.01	10	A	0.05	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
150	A	0.	17	A	0.05	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
151	B	0.01	29	B	0.05	29	B	0.	31	B	0.	31	B	0.02	31	B	0.	31	B	0.	31	B	0.	31
152	A	0.	13	A	0.05	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13	A	0.	13
153	A	0.	2	A	0.05	2	A	0.	2	A	0.	2	A	0.	2	A	0.02	2	A	0.	2	A	0.	2
154	A	0.02	7	A	0.06	7	A	0.01	7	A	0.01	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
155	A	0.01	7	A	0.06	7	A	0.01	7	A	0.01	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
156	A	0.05	30	A	0.14	30	A	0.04	30	A	0.03	30	A	0.02	30	A	0.02	30	A	0.02	30	A	0.02	30
157	A	0.06	31	A	0.14	31	A	0.03	31	A	0.03	31	A	0.01	31	A	0.02	31	A	0.02	31	A	0.02	31
158	A	0.27	65	A	0.34	65	A	0.27	65	A	0.23	65	A	0.22	65	A	0.24	65	A	0.19	65	A	0.08	65
159	A	0.11	172	A	0.15	172	A	0.1	172	A	0.07	172	F	0	0	F	0	0	F	0	0	F	0	0

Continued on next page

Table 132 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
160	B	0.09	183	B	0.19	183	B	0.08	183	B	0.07	183	F	0	0	F	0	0	F	0	0	F	0	0
161	C	0.17	200	C	0.23	200	C	0.18	200	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
162	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
163	A	0.11	324	A	0.17	324	A	0.12	324	A	0.11	324	F	0	0	F	0	0	F	0	0	F	0	0
164	A	0.07	20	A	0.05	20	A	0.	20	A	0.03	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
165	A	0.02	46	A	0.06	46	A	0.02	46	A	0.01	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46
166	A	0.04	38	A	0.09	38	A	0.04	38	A	0.03	38	A	0.02	38	A	0.01	38	A	0.01	38	A	0.02	38
167	B	0.02	32	B	0.06	32	B	0.01	32	B	0.01	32	B	0.	32	B	0.	32	B	0.	32	B	0.	32
168	A	0.02	24	A	0.06	24	A	0.01	18	A	0.01	24	A	0.	24	A	0.	24	A	0.	24	A	0.02	24
169	A	0.01	97	A	0.05	97	A	0.01	97	A	0.01	97	A	0.	97	A	0.	97	A	0.	97	A	0.	97
170	C	0.2	516	C	0.15	533	C	0.11	522	C	0.16	522	C	0.09	539	C	0.12	522	C	0.15	539	C	0.08	539
171	B	0.27	63	B	0.32	65	B	0.24	65	B	0.1	65	B	0.03	65	B	0.03	65	B	0.02	65	B	0.03	65
172	A	0.03	11	A	0.07	11	A	0.02	11	A	0.01	11	A	0.	11	A	0.01	11	A	0.	11	A	0.02	11
173	A	0.01	36	A	0.06	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36	A	0.	36
174	A	0.01	11	A	0.05	11	A	0.01	11	A	0.	11	A	0.02	11	A	0.	11	A	0.	11	A	0.	11
175	B	0.46	434	B	0.48	434	B	0.2	395	C	0.12	202	C	0.11	202	C	0.12	202	C	0.1	202	C	0.22	202
176	A	0.01	24	A	0.05	24	A	0.01	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
177	A	0.07	125	A	0.08	125	A	0.02	170	A	0.	170	A	0.02	170	A	0.	170	A	0.	170	A	0.	170
178	A	0.04	213	A	0.09	213	A	0.03	286	A	0.	286	A	0.	286	A	0.	286	A	0.	286	A	0.	286
179	A	0.24	56	A	0.29	56	A	0.13	56	A	0.06	56	A	0.02	56	A	0.02	56	A	0.01	56	A	0.02	56
180	A	0.36	56	A	0.42	56	A	0.2	56	A	0.07	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.02	56
181	A	0.23	108	A	0.28	108	A	0.18	108	A	0.07	108	A	0.	108	A	0.01	108	A	0.01	108	A	0.02	108

2.131 $5_Inverse_trig_functions\5.1aInversesine\5.1.2(dx)^m(a+\arcsin(cx))^n$

Table 133: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	60	A	0.05	60	A	0.	60	A	0.	60	A	0.	60	A	0.01	60	A	0.	60	A	0.02	60
2	A	0.24	111	A	0.2	111	A	0.06	111	A	0.09	111	A	0.05	111	A	0.06	111	A	0.04	111	A	0.03	111
3	A	0.01	38	A	0.05	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.	38	A	0.02	38
4	A	0.01	53	A	0.05	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.02	53
5	A	0.07	93	A	0.09	93	A	0.04	93	A	0.04	93	A	0.03	94	A	0.02	94	A	0.02	94	A	0.	94
6	A	0.1	37	A	0.05	37	A	0.	37	A	0.03	37	A	0.	37	A	0.03	37	A	0.02	37	A	0.	37
7	A	0.15	43	A	0.09	43	A	0.04	43	A	0.04	43	A	0.03	43	A	0.03	43	A	0.02	43	A	0.	43
8	A	0.16	76	A	0.08	76	A	0.04	76	A	0.04	76	A	0.03	76	A	0.03	76	A	0.02	76	A	0.06	76
9	A	0.12	179	A	0.17	179	A	0.11	179	A	0.1	179	A	0.08	258	A	0.06	258	A	0.05	258	A	0.12	258
10	A	0.26	250	A	0.29	250	A	0.28	250	A	0.2	250	B	0.09	1376	B	0.1	1376	B	0.08	1376	B	0.16	1376
11	A	0.08	67	A	0.08	67	A	0.04	67	A	0.03	67	A	0.02	67	A	0.02	67	A	0.02	67	A	0.02	67
12	A	0.18	227	A	0.2	227	A	0.17	227	A	0.12	227	B	0.06	521	B	0.06	521	B	0.05	521	B	0.11	521
13	A	0.13	13	A	0.09	13	A	0.03	13	A	0.03	13	A	0.03	13	A	0.03	13	A	0.02	13	A	0.03	13
14	A	0.06	82	A	0.1	82	A	0.04	82	A	0.04	82	A	0.03	82	A	0.03	82	A	0.02	82	A	0.03	82
15	A	0.07	45	A	0.09	45	A	0.03	45	A	0.03	45	A	0.02	45	A	0.03	45	A	0.02	45	A	0.08	45
16	A	0.04	60	A	0.09	60	A	0.04	60	A	0.03	60	A	0.03	60	A	0.03	60	A	0.02	60	A	0.03	60
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	A	0.08	49	A	0.11	49	A	0.05	49	A	0.05	49	A	0.02	37	A	0.02	37	A	0.02	37	A	0.03	37
19	A	0.14	233	A	0.18	233	A	0.14	233	A	0.12	233	A	0.05	214	A	0.03	214	A	0.04	214	A	0.08	214
20	A	0.1	154	A	0.14	154	A	0.12	154	A	0.1	154	A	0.05	137	A	0.04	137	A	0.04	137	A	0.06	137
21	A	0.05	25	A	0.1	25	A	0.04	25	A	0.04	25	A	0.03	25	A	0.02	25	A	0.02	25	A	0.08	25
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	A	0.06	65	A	0.1	65	A	0.05	65	A	0.04	65	A	0.03	48	A	0.01	48	A	0.02	48	A	0.02	48
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	A	0.1	107	A	0.13	107	A	0.12	109	A	0.1	109	A	0.05	107	A	0.05	107	A	0.04	107	A	0.08	107
26	A	0.06	83	A	0.11	84	A	0.05	83	A	0.05	83	A	0.01	58	A	0.02	58	A	0.02	58	A	0.06	58
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 133 – continued from previous page

	2017.3		2016.2		2015.2		18.02		17.02		14.0		12.0			
#	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size
28	A	0.1 139	A	0.15 139	A	0.12 139	A	0.1 139	A	0.05 137	A	0.04 137	A	0.04 137	A	0.08 137
29	A	0.01 52	A	0.06 52	A	0. 52	A	0.01 52	A	0. 52	A	0.02 52	A	0. 52	A	0. 52
30	A	0.01 122	A	0.05 122	A	0.01 122	A	0.01 122	A	0. 122	A	0. 122	A	0. 122	A	0. 122
31	A	0.01 72	A	0.05 72	A	0. 72	A	0. 72	A	0. 72	A	0. 72	A	0. 72	A	0.02 72
32	A	0.04 58	A	0.09 58	A	0.03 58	A	0.03 58	A	0.03 58	A	0.04 58	A	0.02 58	A	0.05 58
33	A	0.06 76	A	0.09 76	A	0.04 76	A	0.04 76	A	0.03 82	A	0.02 82	A	0.02 82	A	0.02 82
34	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0
35	A	0.05 289	A	0.1 290	A	0.05 290	A	0.05 290	A	0.03 211	A	0.03 211	A	0.03 211	A	0.09 211
36	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0
37	B	0.09 270	B	0.14 270	B	0.09 270	B	0.09 270	A	0.04 161	A	0.03 161	A	0.03 161	A	0.06 161
38	B	0.11 366	B	0.17 366	B	0.1 366	B	0.11 366	A	0.03 195	A	0.04 195	A	0.03 195	A	0.08 195
39	B	0.13 383	B	0.16 383	B	0.1 383	B	0.1 383	A	0.03 199	A	0.03 199	A	0.02 199	A	0.06 199
40	A	0.1 168	A	0.16 166	A	0.11 168	A	0.09 166	A	0.05 181	A	0.05 181	A	0.04 181	A	0.05 181
41	A	0.13 295	A	0.18 295	A	0.12 295	A	0.1 295	A	0.05 254	A	0.05 254	A	0.04 254	A	0.06 254
42	A	0.07 144	A	0.13 144	A	0.07 144	A	0.06 144	A	0.03 120	A	0.04 120	A	0.03 120	A	0.09 120
43	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0
44	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0
45	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0
46	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0

2.132 $5_Inverse_trig_functions\5.1aInversesine\5.1.4a(fx)^m(d-c^2dx^2)^p(a+barcsin(cx))^n$

Table 134: Breakdown of results for each integral

	2017.3		2016.2		2015.2		18.02		17.02		16.02		14.0		12.0	
#	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size
1	A	0.01 118	A	0.06 118	A	0.01 118	A	0.01 118	A	0. 118	A	0.01 118	A	0.01 118	A	0.03 118
2	A	0.01 110	A	0.06 110	A	0.01 110	A	0.01 110	A	0. 110	A	0.02 110	A	0.01 110	A	0.02 110

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Table 134 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
3	A	0.01	82	A	0.06	82	A	0.01	82	A	0.01	82	A	0.	82	A	0.01	82	A	0.01	82	A	0.	82
4	A	0.21	195	A	0.36	195	A	0.2	195	A	0.15	195	B	0.09	377	B	0.09	377	B	0.06	377	B	0.16	377
5	A	0.02	160	A	0.07	160	A	0.01	160	A	0.01	160	A	0.02	160	A	0.02	160	A	0.01	160	A	0.02	160
6	A	0.46	330	A	0.64	330	A	0.45	330	A	0.21	330	B	0.09	783	B	0.09	783	B	0.09	783	B	0.31	783
7	A	0.02	161	A	0.07	161	A	0.02	161	A	0.02	161	A	0.02	161	A	0.02	161	A	0.01	161	A	0.03	161
8	A	0.17	181	A	0.29	181	A	0.13	181	A	0.12	181	A	0.08	294	A	0.08	294	A	0.06	294	A	0.25	294
9	C	0.35	426	C	0.15	426	C	0.09	426	C	0.06	155	C	0.06	155	C	0.05	155	C	0.04	155	C	0.12	155
10	B	0.28	296	B	0.32	296	B	0.29	296	B	0.18	296	B	0.12	482	B	0.11	482	B	0.09	482	B	0.26	482
11	C	0.26	303	C	0.32	303	C	0.27	303	C	0.22	303	C	0.12	1038	C	0.13	1038	C	0.1	1038	C	0.34	1038
12	C	0.29	330	C	0.36	330	C	0.3	330	C	0.27	330	C	0.14	1491	C	0.15	1491	C	0.12	1491	C	0.36	1491
13	C	0.55	386	C	0.57	386	C	0.49	386	C	0.34	386	C	0.16	1609	C	0.17	1609	C	0.13	1609	C	0.44	1609
14	B	0.89	482	B	1.03	482	B	0.6	482	B	0.41	482	F	0	0	F	0	0	F	0	0	F	0	0
15	C	0.43	1902	C	0.5	1902	C	0.54	1902	C	0.37	1902	F	0	0	F	0	0	F	0	0	F	0	0
16	C	0.53	953	C	0.58	953	C	0.55	953	C	0.37	953	F	0	0	F	0	0	F	0	0	F	0	0
17	C	0.19	343	C	0.24	343	C	0.21	343	C	0.16	343	F	0	0	F	0	0	F	0	0	F	0	0
18	C	0.56	1327	C	0.61	1327	C	0.47	1327	C	0.38	1327	F	0	0	F	0	0	F	0	0	F	0	0
19	C	0.26	597	C	0.3	597	C	0.28	597	C	0.2	597	F	0	0	F	0	0	F	0	0	F	0	0
20	A	0.29	525	A	0.33	525	A	0.27	525	A	0.23	525	F	0	0	F	0	0	F	0	0	F	0	0
21	B	0.34	495	B	0.48	495	B	0.32	495	B	0.27	495	F	0	0	F	0	0	F	0	0	F	0	0
22	A	0.47	727	A	0.54	727	A	0.48	727	A	0.37	727	F	0	0	F	0	0	F	0	0	F	0	0
23	C	0.39	665	C	0.44	665	C	0.42	665	C	0.32	665	F	0	0	F	0	0	F	0	0	F	0	0
24	A	0.14	86	A	0.1	86	A	0.09	86	A	0.08	86	A	0.05	72	A	0.05	72	A	0.04	72	A	0.03	72
25	A	0.14	180	A	0.2	180	A	0.17	180	A	0.14	180	F	0	0	F	0	0	F	0	0	F	0	0
26	C	0.26	306	C	0.3	306	C	0.28	306	C	0.34	306	F	0	0	F	0	0	F	0	0	F	0	0
27	C	0.25	449	C	0.3	449	C	0.26	449	C	0.22	449	F	0	0	F	0	0	F	0	0	F	0	0
28	C	0.3	409	C	0.36	409	C	0.31	409	C	0.27	409	F	0	0	F	0	0	F	0	0	F	0	0
29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 134 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
33	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
34	A	0.14	276	A	0.2	276	A	0.07	276	A	0.06	276	A	0.05	338	A	0.03	338	A	0.03	338	A	0.05	338
35	A	0.06	306	A	0.11	306	A	0.06	306	A	0.05	306	A	0.05	307	A	0.03	307	A	0.02	307	A	0.03	307
36	A	0.05	173	A	0.1	173	A	0.04	173	A	0.04	173	A	0.03	173	A	0.03	173	A	0.02	173	A	0.02	173
37	A	0.19	531	A	0.18	531	A	0.11	486	A	0.08	486	A	0.05	515	A	0.05	515	A	0.04	515	A	0.05	515
38	A	0.41	425	A	0.49	425	A	0.44	425	A	0.26	425	B	0.12	1790	B	0.12	1790	B	0.1	1790	B	0.14	1790
39	A	0.13	258	A	0.29	258	A	0.11	258	A	0.1	258	A	0.09	258	A	0.08	258	A	0.07	258	A	0.11	258
40	B	0.14	529	B	0.2	529	B	0.15	529	B	0.13	529	B	0.11	529	B	0.11	529	B	0.09	529	B	0.11	529
41	B	0.39	829	B	0.47	829	B	0.4	829	B	0.31	829	B	0.2	1302	B	0.21	1302	B	0.16	1302	B	0.2	1302
42	C	0.4	686	C	0.5	686	C	0.47	686	C	0.19	686	C	0.11	1802	C	0.12	1802	C	0.09	1802	C	0.09	1802
43	B	0.72	1547	B	0.74	1547	B	0.63	1547	B	0.51	1547	B	0.28	8683	B	0.3	8683	B	0.23	8683	B	0.3	8683
44	C	0.21	700	C	0.25	700	C	0.19	700	C	0.16	700	F	0	0	F	0	0	F	0	0	F	0	0
45	B	0.38	1017	B	0.4	1017	B	0.38	1017	B	0.3	1017	F	0	0	F	0	0	F	0	0	F	0	0
46	B	0.36	762	B	0.52	762	B	0.37	762	B	0.3	762	F	0	0	F	0	0	F	0	0	F	0	0
47	C	0.74	1882	C	0.76	1882	C	0.72	1882	C	0.54	1882	F	0	0	F	0	0	F	0	0	F	0	0
48	C	0.25	1224	C	0.29	1224	C	0.25	1224	C	0.2	1224	F	0	0	F	0	0	F	0	0	F	0	0
49	B	0.47	1148	B	0.62	1148	B	0.47	1148	B	0.39	1148	F	0	0	F	0	0	F	0	0	F	0	0
50	B	1.	1375	B	1.09	1375	B	0.89	1375	B	0.63	1375	F	0	0	F	0	0	F	0	0	F	0	0
51	C	0.59	1888	C	0.63	1888	C	0.6	1888	C	0.47	1888	F	0	0	F	0	0	F	0	0	F	0	0
52	B	0.26	1107	B	0.4	1107	B	0.25	1107	B	0.22	1107	F	0	0	F	0	0	F	0	0	F	0	0
53	C	0.48	750	C	0.52	750	C	0.48	750	C	0.39	750	F	0	0	F	0	0	F	0	0	F	0	0
54	B	0.42	612	B	0.6	612	B	0.45	612	B	0.36	612	F	0	0	F	0	0	F	0	0	F	0	0
55	B	0.66	2845	B	0.71	2845	B	0.72	2845	B	0.56	2845	F	0	0	F	0	0	F	0	0	F	0	0
56	C	0.34	1373	C	0.42	1373	C	0.37	1373	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
57	A	0.08	71	A	0.13	71	A	0.08	71	A	0.07	71	A	0.05	82	A	0.05	82	A	0.04	82	A	0.05	82
58	A	0.27	269	A	0.32	269	A	0.24	269	A	0.21	269	A	0.09	328	A	0.11	328	A	0.09	328	A	0.11	328

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Table 134 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	C 0.25 486	C 0.3 486	C 0.25 486	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
66	A 0.05 52	A 0.1 52	A 0.05 52	A 0.05 52	A 0.05 38	A 0.04 38	A 0.03 38	A 0.03 38
67	A 0.39 1017	A 0.45 1017	A 0.4 1017	A 0.32 1017	F 0 0	F 0 0	F 0 0	F 0 0
68	A 0.08 85	A 0.11 85	A 0.06 85	A 0.06 85	A 0.05 108	A 0.06 108	A 0.04 108	A 0.03 108
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	A 0.1 138	A 0.13 138	A 0.07 138	A 0.06 138	A 0.05 154	A 0.06 154	A 0.05 154	A 0.05 154
71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	A 0.07 184	A 0.12 184	A 0.06 184	A 0.06 184	A 0.05 206	A 0.05 206	A 0.05 206	A 0.05 206
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	A 0.01 10	A 0.06 10	A 0.01 10	A 0.01 10	A 0. 10	A 0. 10	A 0. 10	A 0. 10
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
76	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
77	A 0.07 135	A 0.12 135	A 0.07 135	A 0.06 135	A 0.05 135	A 0.04 135	A 0.05 135	A 0.05 135
78	A 0.07 46	A 0.11 46	A 0.06 46	A 0.05 46	A 0.05 49	A 0.05 49	A 0.04 49	A 0.05 49
79	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
80	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
81	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
82	A 0.08 136	A 0.12 136	A 0.06 136	A 0.06 136	A 0.06 101	A 0.05 101	A 0.04 101	A 0.05 101
83	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
84	A 0.08 455	A 0.12 455	A 0.08 455	A 0.06 455	A 0.05 311	A 0.05 311	A 0.05 311	A 0.05 311
85	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
86	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 134 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
87	A 0.06 108	A 0.12 108	A 0.06 108	A 0.06 108	A 0.06 70	A 0.05 70	A 0.04 70	A 0.05 70
88	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
89	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
90	A 0.2 594	A 0.27 590	A 0.21 590	A 0.17 590	A 0.08 513	A 0.08 513	A 0.07 513	A 0.09 513
91	A 0.11 446	A 0.16 446	A 0.09 448	A 0.08 446	A 0.03 385	A 0.03 385	A 0.03 385	A 0.03 385
92	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
93	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
94	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
95	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
96	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
97	A 0.07 38	A 0.05 38	A 0. 38	A 0.06 38	A 0. 40	A 0.03 40	A 0.04 40	A 0. 40
98	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
99	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
100	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
101	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.133 $5_Inverse_trig_functions\5.1aInversesine\5.1.4b(fx)^m(d+ex^2)^p(a+barcsin(cx))^n$

Table 135: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.01 201	A 0.06 201	A 0.01 201	A 0.01 201	A 0.02 201	A 0.01 201	A 0. 201	A 0. 201
2	A 0.01 177	A 0.06 177	A 0.01 177	A 0.01 177	A 0.02 177	A 0.02 177	A 0. 177	A 0. 177
3	A 0.26 174	A 0.41 174	A 0.23 174	A 0.18 174	B 0.11 356	B 0.1 356	B 0.09 356	B 0.09 356
4	A 0.01 209	A 0.06 209	A 0.01 209	A 0.01 209	A 0.02 209	A 0.01 209	A 0. 209	A 0. 209
5	A 0.33 272	A 0.52 272	A 0.34 272	A 0.22 272	B 0.12 752	B 0.15 752	B 0.12 752	B 0.17 752
6	A 0.02 168	A 0.07 168	A 0.02 168	A 0.02 168	A 0.02 168	A 0.02 168	A 0.01 168	A 0. 168

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Table 135 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
7	A 0.02 156	A 0.07 156	A 0.02 156	A 0.02 156	A 0.01 156	A 0.02 156	A 0.01 156	A 0.02 156
8	A 0.02 264	A 0.07 264	A 0.02 264	A 0.02 264	A 0.02 264	A 0.01 264	A 0.01 264	A 0. 264
9	C 0.58 523	C 0.75 523	C 0.68 526	C 0.4 526	C 0.2 894	C 0.25 894	C 0.19 894	F 0 0
10	C 1.39 1677	C 1.46 1677	C 1.58 1677	C 1.05 1677	C 0.47 1327	C 0.53 1327	C 0.36 1327	C 0.44 1327
11	C 1.01 1687	C 1.03 1687	C 1.4 1687	C 0.9 1687	C 0.5 1319	C 0.51 1319	C 0.42 1319	C 1.15 1319
12	B 0.1 635	B 0.15 635	B 0.1 635	B 0.08 635	B 0.04 644	B 0.04 644	B 0.03 644	B 0.03 644
13	A 0.1 367	A 0.16 367	A 0.1 367	A 0.09 367	A 0.03 254	A 0.04 254	A 0.03 254	A 0.03 254
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	B 0.19 835	B 0.29 837	B 0.22 835	B 0.18 837	A 0.05 641	A 0.04 641	A 0.04 641	A 0.03 641
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.134 5_Inverse_trig_functions\5.1aInversesine\5.1.5Inversesinefunctions

Table 136: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.01 193	A 0.06 193	A 0.01 193	A 0.01 193	A 0. 193	A 0. 193	A 0.01 193	A 0. 193
2	A 0.01 97	A 0.06 97	A 0.01 97	A 0.01 97	A 0.02 97	A 0.01 97	A 0. 97	A 0.02 97
3	C 0.28 759	C 0.47 759	C 0.23 759	C 0.22 759	C 0.2 739	C 0.28 751	C 0.19 751	F 0 0
4	B 0.06 560	B 0.1 560	B 0.03 560	B 0.03 560	B 0.02 560	B 0.03 560	B 0.03 560	B 0.03 560
5	A 0.06 198	A 0.12 198	A 0.05 198	A 0.05 198	A 0.05 210	A 0.03 210	A 0.02 210	A 0.02 210

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Table 136 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	B 0.71 912	B 1.02 912	B 0.68 912	B 0.3 912	F 0 0	F 0 0	F 0 0	F 0 0
10	C 0.81 1581	C 0.94 1581	C 0.78 1489	C 0.6 1489	F 0 0	F 0 0	F 0 0	F 0 0
11	B 1.13 1734	B 1.25 1734	B 1.19 1734	B 0.61 1734	F 0 0	F 0 0	F 0 0	F 0 0
12	C 0.65 4712	C 0.8 4712	C 0.62 4712	C 0.51 4712	F 0 0	F 0 0	F 0 0	F 0 0
13	C 0.69 1684	C 0.74 1684	C 0.62 1684	C 0.46 1684	F 0 0	F 0 0	F 0 0	F 0 0
14	C 0.68 3765	C 0.76 3765	C 0.67 3765	C 0.61 3765	F 0 0	F 0 0	F 0 0	F 0 0
15	B 0.87 1139	B 1.04 1139	B 0.87 1139	B 0.45 1139	F 0 0	F 0 0	F 0 0	F 0 0
16	B 1.18 4018	B 1.37 4018	B 1.26 4018	B 0.69 4018	F 0 0	F 0 0	F 0 0	F 0 0
17	B 1.11 1640	B 1.22 1640	B 1.08 1640	B 0.6 1640	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	C 0.7 9710	C 0.78 9710	C 0.69 9710	C 0.59 9710	F 0 0	F 0 0	F 0 0	F 0 0
20	C 0.81 5897	C 0.9 5897	C 0.86 5897	C 0.63 5897	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	A 0.01 490	A 0.07 490	A 0.01 490	A 0.01 490	A 0.02 490	A 0. 490	A 0.01 490	A 0. 490
24	B 0.04 805	B 0.09 805	B 0.04 805	B 0.03 805	B 0.03 805	B 0.04 805	B 0.04 805	B 0.03 805
25	B 0.02 1269	B 0.08 1269	B 0.02 1269	B 0.02 1269	B 0.01 1269	B 0.02 1269	B 0.02 1269	B 0.03 1269
26	C 0.79 2477	C 0.95 2441	C 0.69 2441	C 0.54 2477	C 0.44 2776	C 0.54 2776	C 0.37 2776	F 0 0
27	B 0.38 2600	B 0.41 2600	B 0.38 2600	B 0.28 2600	B 0.05 2674	B 0.06 2674	B 0.05 2674	B 0.06 2674
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	A 0.01 213	A 0.06 213	A 0.01 213	A 0.01 213	A 0. 213	A 0. 213	A 0. 213	A 0.02 213
30	C 0.21 579	C 0.43 579	C 0.19 555	C 0.18 555	C 0.16 595	C 0.23 571	C 0.14 595	F 0 0
31	A 0.08 231	A 0.13 231	A 0.07 231	A 0.06 231	A 0.03 251	A 0.03 251	A 0.02 251	A 0.02 251
32	A 0.06 124	A 0.1 124	A 0.05 124	A 0.04 124	A 0.03 129	A 0.03 129	A 0.02 129	A 0.03 129
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 136 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
34	C 0.68 333	C 0.64 333	C 0.45 321	C 0.4 321	C 0.3 466	C 0.31 454	C 0.26 466	C 0.66 466
35	A 0.07 185	A 0.12 185	A 0.05 185	A 0.05 185	A 0.03 192	A 0.02 192	A 0.02 192	A 0.02 192
36	A 0.04 27	A 0.1 27	A 0.04 27	A 0.03 27	A 0.03 27	A 0.03 27	A 0.02 27	A 0.02 27
37	A 0.05 109	A 0.11 109	A 0.05 109	A 0.05 109	A 0.03 106	A 0.03 106	A 0.02 106	A 0.02 106
38	A 0.06 87	A 0.12 87	A 0.05 87	A 0.04 87	A 0.02 90	A 0.02 90	A 0.02 90	A 0.02 90
39	A 0.07 161	A 0.12 161	A 0.06 161	A 0.06 161	A 0.03 134	A 0.02 134	A 0.02 134	A 0.03 134
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	A 0. 36	A 0.06 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36	A 0. 36
42	A 0.01 100	A 0.06 100	A 0.01 100	A 0.01 100	A 0.02 100	A 0.02 100	A 0.01 100	A 0.02 100
43	A 0.04 146	A 0.1 146	A 0.03 146	A 0.04 146	A 0.03 151	A 0.02 151	A 0.02 151	A 0.03 151
44	B 0.07 455	B 0.24 455	B 0.06 455	B 0.06 455	B 0.05 455	B 0.05 455	B 0.04 455	B 0.05 455
45	A 0.11 251	A 0.17 251	A 0.1 251	A 0.09 251	B 0.08 463	B 0.07 463	B 0.05 463	B 0.08 463
46	A 0.12 383	A 0.18 383	A 0.12 368	A 0.1 368	A 0.05 422	A 0.05 422	A 0.04 422	A 0.06 422
47	A 0.1 280	A 0.1 280	A 0.04 278	A 0.08 278	A 0.03 310	A 0.05 310	A 0.04 310	A 0.02 310
48	B 0.08 828	B 0.23 828	B 0.07 828	B 0.07 828	B 0.06 828	B 0.05 828	B 0.04 828	B 0.06 828
49	A 0.11 654	A 0.15 654	A 0.09 645	A 0.1 645	A 0.05 654	A 0.05 654	A 0.04 654	A 0.05 654
50	A 0.09 440	A 0.1 440	A 0.05 438	A 0.06 438	A 0.03 502	A 0.03 502	A 0.02 502	A 0.02 502
51	B 0.08 412	B 0.14 412	B 0.07 412	B 0.07 412	B 0.06 436	B 0.05 436	B 0.04 436	B 0.05 436
52	A 0.05 153	A 0.1 153	A 0.04 153	A 0.04 153	A 0.03 169	A 0.03 169	A 0.02 169	A 0.03 169
53	A 0.06 112	A 0.1 112	A 0.04 112	A 0.04 112	A 0.03 121	A 0.03 121	A 0.02 121	A 0.02 121
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	B 0.1 387	B 0.16 387	B 0.11 387	B 0.1 387	A 0.03 179	A 0.03 179	A 0.02 179	A 0.03 179
56	A 0.14 582	A 0.2 582	A 0.18 582	A 0.16 582	A 0.05 356	A 0.06 356	A 0.04 356	A 0.05 356
57	B 0.18 799	B 0.23 864	B 0.22 799	B 0.22 799	A 0.05 438	A 0.05 438	A 0.04 438	A 0.05 438
58	B 0.12 608	B 0.19 608	B 0.12 608	B 0.13 646	A 0.03 255	A 0.03 255	A 0.02 255	A 0.03 255
59	A 0.06 85	A 0.12 85	A 0.06 85	A 0.06 85	A 0.03 88	A 0.03 88	A 0.03 88	A 0.03 88
60	A 0. 87	A 0.05 87	A 0. 87	A 0. 87	A 0. 90	A 0. 90	A 0. 90	A 0. 90
61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 136 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
62	A 0.11 307	A 0.17 307	A 0.15 307	A 0.12 305	A 0.06 260	A 0.06 260	A 0.05 259	A 0.06 259
63	B 0.15 688	B 0.21 688	B 0.19 689	B 0.15 689	A 0.06 348	A 0.06 348	A 0.05 348	A 0.06 348
64	B 0.16 721	B 0.2 721	B 0.15 721	B 0.13 721	A 0.05 354	A 0.06 354	A 0.04 354	A 0.03 354
65	B 0.19 1229	B 0.27 1229	B 0.21 1229	B 0.18 1229	A 0.05 443	A 0.05 443	A 0.04 443	A 0.05 443
66	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
67	B 0.03 172	B 0.08 172	B 0.02 172	B 0.02 172	B 0.02 172	A 0.02 172	A 0.02 172	A 0.03 172
68	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	A 0.1 179	A 0.13 179	A 0.07 179	A 0.07 179	A 0.05 101	A 0.05 128	A 0.04 128	A 0.05 128
73	A 0.06 14	A 0.11 14	A 0.05 14	A 0.05 14	A 0.05 14	A 0. 14	A 0. 14	A 0. 14
74	A 0.05 14	A 0.11 14	A 0.05 14	A 0.05 14	A 0.03 14	A 0. 14	A 0. 14	A 0. 14
75	A 0.05 14	A 0.11 14	A 0.05 14	A 0.05 14	A 0.05 14	A 0. 14	A 0. 14	A 0. 14
76	A 0.16 194	A 0.23 194	A 0.16 194	A 0.12 194	A 0.08 130	A 0.08 157	A 0.08 157	A 0.08 157
77	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
78	A 0.03 74	A 0.24 74	A 0.03 74	A 0.03 74	A 0.02 74	A 0.01 74	A 0.02 74	A 0.05 74
79	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
80	A 0.02 54	A 0.24 54	A 0.03 54	A 0.02 54	A 0.03 54	A 0.02 54	A 0.02 54	A 0.03 54
81	A 0.01 53	A 0.08 53	A 0. 53	A 0. 53	A 0. 53	A 0. 53	A 0. 53	A 0.02 53
82	A 0.01 35	A 0.06 35	A 0. 35	A 0. 35	A 0. 35	A 0.01 35	A 0. 35	A 0. 35
83	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
84	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
85	B 0.04 258	B 0.24 258	B 0.04 258	B 0.04 258	B 0.05 258	B 0.03 258	B 0.03 258	B 0.06 258
86	A 0.03 132	A 0.24 132	A 0.03 132	A 0.03 132	A 0.03 132	A 0.03 132	A 0.03 132	A 0.03 132
87	A 0.04 346	A 0.08 346	A 0.02 346	A 0.02 346	A 0.02 346	A 0.02 346	A 0.02 346	A 0. 346
88	A 0.02 207	A 0.08 207	A 0.02 207	A 0.02 207	A 0.03 207	A 0.01 207	A 0.02 207	A 0.03 207
89	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 136 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
90	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
91	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
92	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
93	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
94	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
95	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
96	A 0.02 181	A 0.06 181	A 0.01 181	A 0.01 181	A 0. 181	A 0.01 181	A 0. 181	A 0. 181
97	A 0.01 10	A 0.06 10	A 0.01 10	A 0.01 10	A 0.02 10	A 0. 10	A 0. 10	A 0. 10
98	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
99	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.135 5_Inverse_trig_functions\5.1bInversecosine\5.1.2(dx)^m(a+barccos(cx))^n

Table 137: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 60	A 0.06 60	A 0. 60	A 0.02 60	A 0. 60	A 0. 60	A 0. 60	A 0. 60
2	A 0.05 68	A 0.1 68	A 0.05 68	A 0.05 68	A 0.04 68	A 0.05 68	A 0.04 68	A 0.03 68
3	A 0.01 38	A 0.06 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38	A 0.02 38
4	A 0.01 53	A 0.06 53	A 0. 53	A 0. 53	A 0.02 53	A 0. 53	A 0. 53	A 0. 53
5	A 0.05 93	A 0.1 93	A 0.04 94	A 0.04 94	A 0.03 93	A 0.03 93	A 0.02 93	A 0.03 93
6	A 0.04 37	A 0.09 37	A 0.03 37	A 0.03 37	A 0.03 37	A 0.02 37	A 0.02 37	A 0.03 37
7	A 0.05 42	A 0.1 42	A 0.04 42	A 0.04 42	A 0.03 42	A 0.03 42	A 0.02 42	A 0.02 42
8	A 0.05 76	A 0.06 76	A 0. 76	A 0.04 76	A 0. 76	A 0.03 76	A 0.02 76	A 0. 76
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	A 0.23 272	A 0.27 272	A 0.22 272	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	A 0.05 67	A 0.09 67	A 0.03 67	A 0.03 67	A 0.03 67	A 0.02 67	A 0.02 67	A 0.02 67

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Table 137 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
12	A 0.15 149	A 0.22 149	A 0.14 149	A 0.11 149	B 0.08 443	B 0.06 443	B 0.06 443	B 0.08 443
13	A 0.06 13	A 0.09 13	A 0.03 13	A 0.03 13	A 0.03 13	A 0.02 13	A 0.02 13	A 0.02 13
14	A 0.04 82	A 0.1 82	A 0.03 82	A 0.03 82	A 0.03 82	A 0.03 82	A 0.02 82	A 0.03 82
15	A 0.04 43	A 0.09 43	A 0.03 43	A 0.03 43	A 0.03 43	A 0.03 43	A 0.02 43	A 0.03 43
16	A 0.05 60	A 0.09 60	A 0.03 60	A 0.03 60	A 0.03 60	A 0.03 60	A 0.02 60	A 0.03 60
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	A 0.07 49	A 0.12 49	A 0.05 48	A 0.05 49	A 0.03 39	A 0.02 39	A 0.02 39	A 0.03 39
19	A 0.12 233	A 0.18 233	A 0.12 233	A 0.1 233	A 0.05 214	A 0.04 214	A 0.03 214	A 0.03 214
20	A 0.1 154	A 0.14 154	A 0.07 154	A 0.07 154	A 0.03 136	A 0.03 136	A 0.03 136	A 0.03 136
21	A 0.05 26	A 0.1 26	A 0.04 26	A 0.04 26	A 0.03 26	A 0.02 26	A 0.02 26	A 0.02 26
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	A 0.06 66	A 0.11 64	A 0.05 64	A 0.05 64	A 0.03 49	A 0.02 49	A 0.02 49	A 0.02 49
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	A 0.08 107	A 0.13 107	A 0.09 107	A 0.08 107	A 0.03 107	A 0.03 107	A 0.03 107	A 0.02 107
26	A 0.06 83	A 0.12 83	A 0.05 83	A 0.05 83	A 0.03 59	A 0.02 59	A 0.02 59	A 0.03 59
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	A 0.09 139	A 0.14 139	A 0.1 139	A 0.09 139	A 0.03 137	A 0.05 137	A 0.03 137	A 0.05 137
29	A 0.01 52	A 0.06 52	A 0. 52	A 0. 52	A 0.01 52	A 0. 52	A 0. 52	A 0. 52
30	A 0.01 77	A 0.06 77	A 0. 77	A 0. 77	A 0. 77	A 0.01 77	A 0. 77	A 0.02 77
31	A 0.01 74	A 0.06 74	A 0. 74	A 0. 74	A 0. 74	A 0. 74	A 0. 74	A 0. 74
32	A 0.04 58	A 0.09 58	A 0.03 58	A 0.03 58	A 0.03 58	A 0.02 58	A 0.02 58	A 0. 58
33	A 0.04 74	A 0.1 74	A 0.03 74	A 0.03 74	A 0.03 80	A 0.03 80	A 0.02 80	A 0.03 80
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	A 0.08 290	A 0.11 290	A 0.05 291	A 0.04 290	A 0.05 213	A 0.03 213	A 0.03 213	A 0.05 213
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	B 0.09 270	B 0.14 270	B 0.08 270	B 0.08 270	A 0.03 162	A 0.02 162	A 0.02 162	A 0.03 162
38	B 0.09 394	B 0.16 366	B 0.08 394	B 0.09 366	A 0.03 196	A 0.03 196	A 0.02 196	A 0.03 196
39	B 0.1 393	B 0.16 393	B 0.1 383	B 0.1 383	A 0.03 198	A 0.03 198	A 0.02 198	A 0.02 198

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Table 137 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
40	A 0.09 167	A 0.15 167	A 0.11 167	A 0.09 167	A 0.03 183	A 0.05 183	A 0.04 183	A 0.03 183
41	A 0.1 295	A 0.15 295	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	A 0.06 142	A 0.11 145	A 0.05 142	A 0.05 145	A 0.03 121	A 0.03 121	A 0.03 121	A 0.03 121
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.136 5_Inverse_trig_functions\5.1bInversecosine\5.1.5Inversecosinefunctions

Table 138: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.87 912	B 0.98 912	B 0.87 912	B 0.44 912	F 0 0	F 0 0	F 0 0	F 0 0
2	B 0.62 698	B 0.76 698	B 0.62 698	B 0.36 698	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0.18 130	A 0.35 130	A 0.16 130	A 0.13 130	A 0.09 242	A 0.09 242	A 0.08 242	A 0.09 242
8	A 0.25 127	A 0.42 127	A 0.22 127	A 0.17 127	B 0.12 309	B 0.09 309	B 0.09 309	B 0.17 309
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	A 0.01 118	A 0.01 118	A 0.01 118	A 0.01 118	A 0. 118	A 0.01 118	A 0.01 118	A 0. 118
12	A 0. 48	A 0. 48	A 0. 48	A 0. 48	A 0. 48	A 0. 48	A 0. 48	A 0.02 48
13	A 0.04 37	A 0.03 37	A 0.03 37	A 0.03 37	A 0.03 37	A 0.02 37	A 0.02 37	A 0.02 37
14	A 0.03 65	A 0.24 65	A 0.03 65	A 0.03 65	A 0.03 65	A 0.02 65	A 0.02 65	A 0.05 65

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Table 138 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
15	A 0.01 65	A 0.06 65	A 0.01 65	A 0.01 65	A 0. 65	A 0. 65	A 0.01 65	A 0.02 65
16	A 0.02 39	A 0.06 39	A 0.01 39	A 0.01 39	A 0.02 39	A 0. 39	A 0.01 39	A 0.02 39
17	A 0.01 30	A 0.06 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.01 30	A 0. 30
18	A 0.01 35	A 0.06 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35	A 0. 35
19	A 0.01 20	A 0.06 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
20	A 0.02 45	A 0.07 45	A 0.01 45	A 0.01 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.02 45
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	A 0.07 6	A 0.11 6	A 0.06 6	A 0.06 6	A 0.05 6	A 0.03 6	A 0.04 6	A 0.03 6

2.137 $5_Inverse_trig_functions\5.2aInversetangent\5.2.1.1(dx)^m(a+barctan(cx))^n$

Table 139: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.01 42	A 0.06 42	A 0. 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
2	A 0.01 30	A 0.06 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30
3	A 0.08 85	A 0.14 85	A 0.08 85	A 0.08 85	B 0.06 139	B 0.05 139	B 0.05 139	B 0.08 139
4	C 0.48 991	C 0.59 991	C 0.32 991	B 0.06 254	B 0.05 254	B 0.06 254	B 0.04 254	B 0.06 254
5	C 0.08 235	C 0.08 235	C 0.02 235	B 0.08 133	B 0.06 182	B 0.06 182	B 0.05 182	B 0.06 182
6	C 2.62 1616	C 1.56 1616	C 2.5 1616	A 0.22 220	B 0.11 1817	B 0.09 1817	B 0.08 1817	B 0.09 1817
7	C 0.25 1085	C 0.4 1085	C 0.27 1085	B 0.08 348	B 0.06 348	B 0.07 348	B 0.05 348	B 0.06 348

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Table 139 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
8	C 0.29 1721	C 0.44 1721	C 0.36 1721	B 0.08 194	B 0.06 243	B 0.07 243	B 0.05 243	B 0.06 243
9	C 0.02 286	C 0.07 286	C 0.01 286	A 0.11 166	B 0.08 637	B 0.08 637	B 0.06 637	B 0.11 637
10	C 6.26 9833	C 4.13 9833	C 7.44 9833	A 0.3 371	B 0.14 6628	B 0.14 6628	B 0.13 6628	B 0.16 6628
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	C 0.99 101	C 1.18 101	C 0.77 122	C 0.76 122	C 0.66 122	C 0.74 122	C 0.62 122	C 0.78 122

2.138 $5_Inverse_trig_functions\5.2aInversetangent\5.2.1.2(fx)^m(d-c^2dx^2)^p(a+barctan(cx))^n$

Table 140: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 58	A 0.06 58	A 0.01 58	A 0.01 58	A 0. 58	A 0. 58	A 0. 58	A 0. 58
2	C 0.02 93	C 0.08 93	C 0.02 93	B 0.09 194	B 0.06 248	B 0.07 248	B 0.06 248	B 0.09 248
3	C 0.02 134	C 0.08 134	C 0.02 134	B 0.2 247	B 0.12 361	B 0.13 361	B 0.1 361	B 0.14 361
4	A 0.02 103	A 0.08 103	A 0.02 103	A 0.02 103	A 0.02 103	A 0.02 103	A 0.01 103	A 0.02 103
5	C 0.08 281	C 0.08 281	C 0.02 281	A 0.18 283	B 0.11 803	B 0.12 803	B 0.09 803	B 0.3 803
6	A 0.03 89	A 0.08 89	A 0.03 89	B 0.17 458	B 0.12 458	B 0.11 467	B 0.09 458	B 0.3 458
7	C 0.05 257	C 0.08 257	C 0.02 257	A 0.12 238	B 0.08 307	B 0.08 307	B 0.06 307	B 0.22 307
8	A 0.04 92	A 0.11 92	A 0.04 92	B 0.16 279	B 0.09 279	B 0.1 279	B 0.09 279	B 0.23 279
9	A 0.05 125	A 0.11 125	A 0.05 125	B 0.22 429	B 0.12 429	B 0.11 429	B 0.1 429	B 0.37 429
10	A 0.05 170	A 0.11 168	A 0.05 168	C 0.3 495	C 0.14 1881	C 0.14 1881	C 0.12 1881	C 0.16 1881
11	C 0.37 199	C 0.67 199	C 0.45 199	C 0.29 199	F 0 0	F 0 0	F 0 0	F 0 0
12	C 0.43 245	C 0.5 245	C 0.48 245	C 0.34 245	F 0 0	F 0 0	F 0 0	F 0 0
13	C 0.34 205	C 0.43 205	C 0.38 205	C 0.28 205	F 0 0	F 0 0	F 0 0	F 0 0
14	C 0.28 265	C 0.33 265	C 0.29 268	C 0.23 265	F 0 0	F 0 0	F 0 0	F 0 0
15	C 0.78 165	C 0.88 165	C 0.9 165	C 0.43 165	F 0 0	F 0 0	F 0 0	F 0 0
16	A 0.39 175	A 0.46 175	A 0.39 175	A 0.24 175	F 0 0	F 0 0	F 0 0	F 0 0

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Table 140 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
17	C	0.76	242	C	0.84	242	C	0.81	242	C	0.42	242	F	0	0	F	0	0	F	0	0	F	0	0
18	C	0.88	600	C	1.11	600	C	1.03	692	C	0.84	692	C	0.69	692	C	0.75	692	C	0.61	692	C	0.72	692
19	C	0.54	222	C	0.6	222	C	0.51	264	C	0.57	264	C	0.45	264	C	0.55	264	C	0.42	264	C	0.41	264
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	C	0.02	258	C	0.08	258	C	0.02	258	A	0.25	154	B	0.12	4677	B	0.14	4677	B	0.11	4677	B	0.14	4677
22	C	0.03	262	C	0.09	262	C	0.03	262	A	0.11	212	B	0.09	299	B	0.08	299	B	0.07	299	B	0.09	299
23	C	0.02	333	C	0.08	333	C	0.02	333	A	0.35	226	B	0.17	9103	B	0.18	9103	B	0.15	9103	B	0.2	9103
24	C	0.02	304	C	0.08	304	C	0.02	304	A	0.18	197	B	0.11	4315	B	0.1	4315	B	0.08	4315	B	0.11	4315
25	C	4.66	1255	C	3.98	1255	C	4.28	1255	B	0.15	457	B	0.09	2930	B	0.1	2930	B	0.08	2930	B	0.11	2930
26	C	12.	1217	C	6.25	1217	C	9.72	1217	A	0.3	499	B	0.16	758	B	0.17	758	B	0.14	758	B	0.2	758
27	C	0.02	284	C	0.08	284	C	0.02	284	A	0.24	177	B	0.17	2015	B	0.15	2015	B	0.12	2015	B	0.62	2015
28	C	0.04	374	C	0.08	374	C	0.02	374	A	0.23	236	B	0.12	2076	B	0.12	2076	B	0.1	2076	B	0.31	2076
29	B	0.24	333	B	0.43	333	B	0.22	333	B	0.2	395	B	0.11	553	B	0.11	553	B	0.09	553	B	0.16	553
30	C	3.56	5115	C	6.38	5115	C	4.01	5115	B	0.18	602	B	0.11	1172	B	0.1	1172	B	0.08	1172	B	0.11	1172
31	A	0.04	164	A	0.09	166	A	0.03	166	A	0.04	123	A	0.05	165	A	0.03	165	A	0.02	165	A	0.02	165
32	A	0.4	302	A	0.49	302	A	0.45	302	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
33	C	0.27	337	C	0.34	337	C	0.21	337	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
34	C	0.76	294	C	0.86	294	C	0.79	294	C	0.43	294	F	0	0	F	0	0	F	0	0	F	0	0
35	A	0.37	279	A	0.4	279	A	0.39	279	A	0.24	279	F	0	0	F	0	0	F	0	0	F	0	0
36	A	0.48	376	A	0.55	376	A	0.46	376	A	0.29	376	F	0	0	F	0	0	F	0	0	F	0	0
37	C	0.71	272	C	0.74	272	C	0.79	272	C	0.45	272	F	0	0	F	0	0	F	0	0	F	0	0
38	C	0.36	276	C	0.42	276	C	0.44	276	C	0.27	276	F	0	0	F	0	0	F	0	0	F	0	0
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
40	C	0.03	313	C	0.09	313	C	0.03	313	A	0.22	216	B	0.14	8571	B	0.13	8571	B	0.11	8571	B	0.16	8571
41	C	0.03	276	C	0.09	276	C	0.02	276	A	0.16	179	B	0.09	3284	B	0.11	3284	B	0.09	3284	B	0.11	3284
42	A	1.84	460	A	2.02	460	A	3.39	460	A	0.16	460	A	0.09	514	A	0.09	514	A	0.08	514	A	0.09	514
43	C	0.03	411	C	0.09	411	C	0.03	411	A	0.3	304	B	0.17	14266	B	0.17	14266	B	0.15	14266	B	0.22	14266
44	C	5.08	1121	C	5.8	1121	C	9.48	3674	A	0.37	376	B	0.17	12915	B	0.19	12915	B	0.16	12915	B	0.2	12915

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Table 140 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
45	C	0.02	368	C	0.08	368	C	0.02	368	A	0.21	261	B	0.12	7019	B	0.16	7019	B	0.13	7019	B	0.19	7019
46	C	2.94	2691	C	3.62	2691	C	5.39	2691	A	0.19	329	B	0.11	6258	B	0.11	6258	B	0.09	6258	B	0.12	6258
47	C	2.25	1740	C	1.27	1740	C	1.88	1740	A	0.2	285	B	0.09	2164	B	0.11	2164	B	0.09	2164	B	0.11	2164
48	A	0.01	15	A	0.06	15	A	0.01	15	A	0.03	15	A	0.02	15	A	0.01	15	A	0.02	15	A	0.02	15
49	A	0.02	118	A	0.08	118	A	0.02	118	A	0.04	88	A	0.03	118	A	0.03	118	A	0.02	118	A	0.03	118
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
52	C	0.35	466	C	0.38	466	C	0.32	466	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
53	A	0.5	557	A	0.54	557	A	0.56	557	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	C	0.63	566	C	0.65	566	C	0.64	566	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	C	0.42	518	C	0.47	518	C	0.39	518	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
56	C	0.82	430	C	0.82	430	C	0.79	430	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
57	A	0.4	356	A	0.43	356	A	0.4	356	A	0.26	356	F	0	0	F	0	0	F	0	0	F	0	0
58	C	0.75	312	C	0.81	312	C	0.73	312	C	0.41	312	F	0	0	F	0	0	F	0	0	F	0	0
59	C	0.36	308	C	0.37	308	C	0.33	308	C	0.2	308	F	0	0	F	0	0	F	0	0	F	0	0
60	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
61	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
62	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
63	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
64	A	0.04	13	A	0.09	13	A	0.03	13	A	0.03	13	A	0.03	13	A	0.02	13	A	0.02	13	A	0.02	13
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
67	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	A	0.04	16	A	0.11	16	A	0.03	16	A	0.03	16	A	0.03	16	A	0.03	16	A	0.02	16	A	0.03	16
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 140 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
73	A	0.06	32	A	0.11	32	A	0.04	32	A	0.04	32	A	0.03	32	A	0.02	32	A	0.02	32	A	0.03	32
74	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
77	C	0.38	125	C	0.43	125	C	0.42	125	C	0.26	125	F	0	0	F	0	0	F	0	0	F	0	0
78	C	0.36	179	C	0.4	179	C	0.37	179	C	0.19	163	F	0	0	F	0	0	F	0	0	F	0	0
79	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
80	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
82	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
83	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
84	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
85	A	0.06	60	A	0.11	58	A	0.04	58	A	0.04	60	A	0.03	74	A	0.03	74	A	0.03	74	A	0.02	74
86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
89	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
90	C	0.35	210	C	0.4	210	C	0.39	210	C	0.26	210	F	0	0	F	0	0	F	0	0	F	0	0
91	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
92	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
93	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
94	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
95	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
96	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
97	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
98	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
99	A	0.04	90	A	0.1	90	A	0.04	90	A	0.03	90	A	0.03	115	A	0.03	115	A	0.03	115	A	0.03	115
100	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 140 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
101	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
102	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
103	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
104	C	0.44	844	C	0.5	844	C	0.45	844	C	0.29	844	F	0	0	F	0	0	F	0	0	F	0	0
105	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
106	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
107	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
108	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
109	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
110	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
111	A	0.06	46	A	0.13	46	A	0.06	46	A	0.06	46	A	0.05	46	A	0.03	46	A	0.03	46	A	0.05	46
112	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
113	A	0.09	110	A	0.15	102	A	0.07	102	A	0.06	102	A	0.05	110	A	0.03	110	A	0.03	110	A	0.03	110
114	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
115	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
116	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
117	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
118	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
119	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
120	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
121	A	0.07	75	A	0.13	75	A	0.08	75	A	0.06	75	A	0.05	81	A	0.05	81	A	0.03	81	A	0.03	81
122	A	0.07	75	A	0.12	75	A	0.05	75	A	0.05	75	A	0.03	81	A	0.03	81	A	0.02	81	A	0.03	81
123	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
124	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
125	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
126	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
127	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
128	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 140 – continued from previous page

#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
129	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
130	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
131	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
132	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
133	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
134	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
135	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
136	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
137	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
138	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
139	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
140	A	0.04	15	A	0.1	15	A	0.03	15	A	0.03	15	A	0.03	15	A	0.02	15	A	0.02	15	A	0.02	15
141	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
142	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
143	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
144	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
145	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
146	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
147	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
148	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
149	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
150	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
151	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
152	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
153	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
154	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
155	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
156	A	0.06	24	A	0.12	24	A	0.06	24	A	0.05	24	A	0.03	24	A	0.03	24	A	0.03	24	A	0.03	24

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#	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
157	A	0.07	38	A	0.13	38	A	0.06	38	A	0.05	38	A	0.03	38	A	0.03	38	A	0.02	38	A	0.03	38
158	A	0.07	54	A	0.13	54	A	0.08	54	A	0.06	54	A	0.03	54	A	0.03	54	A	0.03	54	A	0.05	54
159	A	0.08	68	A	0.13	68	A	0.06	68	A	0.06	68	A	0.05	68	A	0.03	68	A	0.03	68	A	0.05	68
160	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
161	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
162	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
163	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
164	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
165	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
166	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
167	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
168	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
169	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
170	A	0.08	53	A	0.13	53	A	0.09	53	A	0.07	53	A	0.05	66	A	0.05	66	A	0.04	66	A	0.05	66
171	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
172	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
173	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
174	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
175	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
176	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
177	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
178	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
179	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
180	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
181	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
182	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
183	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
184	A	0.06	59	A	0.12	59	A	0.06	59	A	0.06	59	A	0.03	67	A	0.03	67	A	0.03	67	A	0.03	67

Continued on next page

Table 140 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
185	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
186	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
187	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
188	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
189	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
190	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
191	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
192	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
193	A	0.04	21	A	0.09	21	A	0.03	21	A	0.03	21	A	0.03	21	A	0.03	21	A	0.02	21
194	C	0.67	2240	C	0.67	2240	C	0.67	2240	C	0.59	2240	C	0.34	2138	C	0.43	2138	C	0.37	3030
195	C	0.57	1913	C	0.8	1913	C	0.62	1913	C	0.52	1913	C	0.34	2632	C	0.4	2632	C	0.34	3676
196	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
197	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
198	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
199	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.139 $5_Inverse_trig_functions\5.2aInversetangent\5.2.1.3(fx)^m(d+ex^2)^p(a+barctan(cx))^n$

Table 141: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	102	A	0.08	102	A	0.01	102	A	0.01	102	A	0.	102	A	0.02	102	A	0.01	102	A	0.02	102
2	C	0.02	117	C	0.08	117	C	0.02	117	B	0.1	227	B	0.08	672	B	0.08	672	B	0.06	672	B	0.08	672
3	A	0.03	97	A	0.09	97	A	0.02	97	A	0.02	97	A	0.02	97	A	0.01	97	A	0.01	97	A	0.02	97
4	A	0.02	168	A	0.07	168	A	0.01	168	A	0.01	168	A	0.	168	A	0.01	168	A	0.01	168	A	0.02	168
5	C	0.03	178	C	0.1	178	C	0.03	178	B	0.19	302	B	0.11	7874	B	0.11	7874	B	0.1	7874	B	0.14	7874
6	A	0.03	147	A	0.08	147	A	0.02	147	A	0.02	147	A	0.02	147	A	0.02	147	A	0.01	147	A	0.	147

Continued on next page

Table 141 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
7	A	0.03	186	A	0.09	186	A	0.02	186	A	0.02	186	A	0.02	186	A	0.02	186	A	0.01	186	A	0.02	186
8	C	0.25	760	C	0.28	760	C	0.16	760	C	0.37	1877	C	0.26	2846	C	0.26	2846	C	0.24	2846	C	0.37	2846
9	C	0.66	3851	C	0.66	3851	C	0.57	3855	C	0.48	3855	C	0.36	12842	C	0.37	12842	C	0.31	12842	C	0.45	12842
10	B	0.05	297	B	0.1	294	B	0.03	294	B	0.03	294	B	0.03	294	B	0.03	294	B	0.02	294	B	0.03	294
11	A	0.03	216	A	0.09	180	A	0.02	180	A	0.02	180	A	0.03	180	A	0.02	180	A	0.01	180	A	0.02	180
12	C	0.93	3664	C	1.01	3664	C	0.88	3670	C	0.68	3670	C	0.58	30244	C	0.64	30244	C	0.6	30244	C	0.9	30244
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.140 5_Inverse_trig_functions\5.2aInversetangent\5.2.1.4Inversetangentfunctions

Table 142: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	C	0.04	192	C	0.1	192	C	0.03	192	B	0.39	348	B	0.25	2263	B	0.36	2263	B	0.19	2263	B	0.37	2264
2	C	0.04	159	C	0.09	159	C	0.02	159	A	0.14	166	A	0.09	166	A	0.08	166	A	0.07	166	A	0.09	166
3	C	0.03	246	C	0.09	246	C	0.03	246	A	0.41	312	B	0.2	1014	B	0.2	1014	B	0.16	1014	B	0.22	1014
4	C	0.04	267	C	0.08	267	C	0.02	267	A	0.44	339	B	0.2	2265	B	0.2	2265	B	0.15	2265	B	0.25	2265
5	A	0.02	127	A	0.07	127	A	0.01	127	A	0.01	127	A	0.02	127	A	0.	127	A	0.01	127	A	0.02	127
6	C	0.04	57	C	0.08	57	C	0.02	59	C	0.12	168	C	0.11	168	C	0.16	168	C	0.1	168	C	0.14	168
7	A	0.02	121	A	0.08	121	A	0.01	121	A	0.02	121	A	0.	121	A	0.02	121	A	0.01	121	A	0.02	121
8	A	0.01	32	A	0.07	32	A	0.01	32	A	0.	32	A	0.02	32	A	0.	32	A	0.	32	A	0.	32
9	A	0.01	94	A	0.07	94	A	0.01	94	A	0.02	94	A	0.	94	A	0.	94	A	0.	94	A	0.	94
10	A	0.02	30	A	0.08	30	A	0.01	30	A	0.01	30	A	0.02	30	A	0.	30	A	0.01	30	A	0.	30
11	A	0.01	25	A	0.06	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25
12	A	0.01	19	A	0.06	19	A	0.	19	A	0.	19	A	0.	19	A	0.02	19	A	0.	19	A	0.02	19
13	A	0.01	66	A	0.07	66	A	0.01	66	A	0.01	66	A	0.	66	A	0.01	66	A	0.	66	A	0.	66
14	C	0.78	631	C	0.76	631	C	0.58	633	C	0.35	633	C	0.3	633	C	0.4	633	C	0.28	633	C	0.52	633
15	C	0.04	198	C	0.1	198	C	0.03	198	B	0.23	682	B	0.19	681	B	0.2	681	B	0.16	681	B	0.28	681
16	C	0.45	185	C	0.49	185	C	0.35	186	C	0.22	186	C	0.2	186	C	0.25	186	C	0.18	186	C	0.31	186
17	C	0.27	176	C	0.31	176	C	0.24	176	C	0.19	176	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	A	0.02	205	A	0.09	205	A	0.02	205	A	0.02	205	A	0.02	205	A	0.01	205	A	0.01	205	A	0.02	205
20	A	0.03	438	A	0.09	438	A	0.02	438	A	0.02	438	A	0.03	438	A	0.03	438	A	0.01	438	A	0.02	438
21	B	0.1	359	B	0.17	359	B	0.1	359	B	0.09	359	B	0.08	622	B	0.06	622	B	0.06	622	B	0.11	622
22	C	1.55	4764	C	1.57	4764	C	1.27	4764	C	0.35	1010	C	0.28	1576	C	0.28	1576	C	0.23	1576	C	0.42	1576
23	B	0.28	371	B	1.18	371	B	0.27	371	B	0.2	371	B	0.2	371	B	0.09	371	B	0.08	371	B	0.08	371
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	A	0.02	41	A	0.08	41	A	0.02	41	C	0.14	572	C	0.14	572	C	0.16	572	C	0.15	1164	C	0.2	1164
26	A	0.01	15	A	0.06	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
27	A	0.02	21	A	0.08	21	A	0.02	21	C	0.09	309	F	0	0	F	0	0	F	0	0	F	0	0

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Table 142 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	B 0.04 65	B 0.09 65	B 0.02 65	B 0.01 65	B 0.02 65	B 0.01 65	B 0. 65	B 0.02 65
29	C 0.11 1753	C 0.18 1753	C 0.09 1635	B 0.26 529	B 0.2 781	B 0.2 781	B 0.17 781	B 0.28 781
30	C 0.06 142	C 0.08 142	C 0.02 142	C 0.04 142	C 0.02 142	C 0.03 142	C 0.01 142	C 0.02 142
31	C 0.12 440	C 0.16 440	C 0.09 440	C 0.13 498	C 0.09 610	C 0.09 610	C 0.06 610	C 0.11 610
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	C 1.26 5425	C 1.61 5425	C 1.16 5425	C 1.1 5425	C 1.11 5373	C 1.08 5373	C 0.84 5373	C 4.88 5373
34	C 0.5 2415	C 0.64 2415	C 0.49 2415	C 0.35 2415	C 0.33 2411	C 0.38 2411	C 0.34 2411	C 0.58 2411
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	C 0.02 106	C 0.08 106	C 0.02 106	B 0.06 220	B 0.06 220	B 0.05 220	B 0.04 220	B 0.06 220
39	C 0.14 349	C 0.25 349	C 0.11 290	C 0.1 290	C 0.09 290	C 0.09 290	C 0.08 290	C 0.14 290
40	C 0.19 652	C 0.3 652	C 0.16 652	C 0.16 652	C 0.14 652	C 0.16 652	C 0.12 652	C 0.22 652
41	A 0.01 25	A 0.06 25	A 0. 25	A 0.01 25	A 0. 25	A 0. 25	A 0. 25	A 0. 25
42	A 0.15 72	A 0.17 72	A 0.09 72	A 0.09 72	A 0.06 102	A 0.07 102	A 0.07 102	A 0.08 102
43	A 0.11 72	A 0.16 72	A 0.08 72	A 0.08 72	A 0.06 102	A 0.06 102	A 0.07 102	A 0.05 102
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.141 $5_Inverse_trig_functions\5.2aInversetangent\5.2.2.1x^m(c+a^2cx^2)^pE^{(narctan(ax))}$

Table 143: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	A 0.02 71	A 0.07 71	A 0.03 71	A 0.01 71	A 0. 71	A 0.02 71	A 0.01 71	A 0.02 71
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	A 0.01 40	A 0.07 40	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0.01 40	A 0.02 40

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Table 143 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
5	A 0.02 56	A 0.07 56	A 0.01 56	A 0.01 56	A 0.01 56	A 0. 56	A 0.01 56	A 0.02 56
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	A 0.01 41	A 0.07 41	A 0.01 41	A 0.01 41	A 0.02 41	A 0.01 41	A 0.01 41	A 0. 41
9	A 0.02 56	A 0.07 56	A 0.01 56	A 0.01 56	A 0.02 56	A 0. 56	A 0.01 56	A 0.02 56
10	A 0.02 72	A 0.07 72	A 0.01 72	A 0.01 72	A 0. 72	A 0.02 72	A 0.01 72	A 0. 72
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.02 74	A 0.07 74	A 0.01 74	A 0.01 74	A 0. 74	A 0. 74	A 0.01 74	A 0.02 74
13	A 0.03 45	B 0.08 94	B 0.05 94	B 0.02 94	B 0.02 94	B 0.02 94	B 0.01 94	B 0.02 94
14	A 0.06 113	A 0.12 113	A 0.2 113	A 0.06 113	A 0.06 113	A 0.06 113	A 0.05 113	A 0.08 113
15	A 0.06 63	A 0.12 63	A 0.04 63	A 0.05 63	A 0.05 63	A 0.05 63	A 0.04 63	A 0.02 63
16	A 0.01 26	A 0.06 26	A 0. 26	A 0. 26	A 0. 26	A 0.02 26	A 0. 26	A 0. 26
17	B 0.1 800	B 0.15 800	B 0.11 800	B 0.08 800	B 0.08 800	B 0.08 800	B 0.06 800	B 0.09 800
18	A 0.04 53	A 0.1 53	A 0.05 53	A 0.04 53	A 0.03 53	A 0.05 53	A 0.03 53	A 0.03 53
19	A 0.08 87	A 0.14 87	A 0.06 87	A 0.07 87	A 0.06 87	A 0.08 87	A 0.05 87	A 0.08 87
20	A 0.07 66	A 0.13 66	A 0.06 66	A 0.07 66	A 0.06 66	A 0.08 66	A 0.05 66	A 0.08 66
21	A 0.01 38	A 0.07 38	A 0.01 38	A 0.01 38	A 0.02 38	A 0.01 38	A 0. 38	A 0.02 38
22	A 0.06 44	A 0.1 44	A 0.03 44	A 0.04 44	A 0.03 44	A 0.04 44	A 0.02 44	A 0.03 44
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	A 0.1 58	A 0.2 58	A 0.1 58	A 0.09 58	A 0.14 58	A 0.15 58	A 0.08 58	A 0.09 58
29	A 0.07 58	A 0.14 58	A 0.06 58	A 0.07 58	A 0.06 58	A 0.08 58	A 0.05 58	A 0.09 58

2.142 5_Inverse_trig_functions\5.2aInversetangent\5.2.2.Exponentialsofinversetangent

Table 144: Breakdown of results for each integral

#	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.07	109	A	0.14	109	A	0.06	109	A	0.06	109	A	0.06	109	A	0.08	109	A	0.05	109	A	0.09	109
2	B	0.06	48	B	0.11	48	B	0.04	48	B	0.05	48	B	0.06	48	B	0.07	48	B	0.04	48	B	0.06	48
3	A	0.06	53	A	0.12	53	A	0.06	53	A	0.06	53	A	0.06	53	A	0.07	53	A	0.04	53	A	0.08	53
4	A	0.01	38	A	0.07	38	A	0.01	38	A	0.01	38	A	0.	38	A	0.	38	A	0.	38	A	0.02	38
5	A	0.02	34	A	0.08	34	A	0.01	34	A	0.01	34	A	0.	34	A	0.01	34	A	0.	34	A	0.	34
6	A	0.08	143	A	0.14	143	A	0.06	143	A	0.07	143	A	0.06	143	A	0.08	143	A	0.05	143	A	0.09	143
7	A	0.06	104	A	0.12	104	A	0.05	104	A	0.06	104	A	0.06	104	A	0.06	104	A	0.04	104	A	0.05	104
8	A	0.03	60	A	0.08	81	A	0.01	81	A	0.02	81	A	0.02	81	A	0.02	81	A	0.01	81	A	0.02	81
9	A	0.02	41	A	0.08	55	A	0.01	55	A	0.02	55	A	0.02	55	A	0.02	55	A	0.01	55	A	0.02	55
10	B	0.07	152	B	0.13	152	B	0.06	152	B	0.07	152	B	0.08	152	B	0.09	152	B	0.04	152	B	0.06	152
11	B	0.08	194	B	0.14	194	B	0.06	194	B	0.07	194	B	0.08	194	B	0.09	194	B	0.05	194	B	0.09	194
12	A	0.02	30	A	0.08	30	A	0.01	30	A	0.02	30	A	0.02	30	A	0.02	30	A	0.01	30	A	0.02	30
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 144 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	A 0.08 171	A 0.16 171	A 0.07 171	A 0.08 171	A 0.09 171	A 0.1 171	A 0.08 171	A 0.12 171
32	A 0.04 69	A 0.1 69	A 0.03 69	A 0.04 69	A 0.03 69	A 0.05 69	A 0.02 69	A 0.03 69
33	B 0.08 236	B 0.14 236	B 0.07 236	B 0.08 236	B 0.08 236	B 0.09 236	B 0.07 236	B 0.09 236
34	B 0.02 149	B 0.08 149	B 0.04 149	B 0.02 149	B 0.02 149	B 0.02 149	B 0.01 149	B 0.02 149
35	B 0.12 933	B 0.2 933	B 0.11 933	B 0.12 933	B 0.12 933	B 0.14 933	B 0.1 933	B 0.17 933
36	B 0.05 362	B 0.11 362	B 0.04 362	B 0.04 362	B 0.05 362	B 0.06 362	B 0.03 362	B 0.03 362
37	B 0.08 818	B 0.14 818	B 0.07 818	B 0.08 818	B 0.08 818	B 0.08 818	B 0.06 818	B 0.11 818
38	B 0.09 2624	B 0.16 2624	B 0.08 2624	B 0.09 2624	B 0.09 2624	B 0.11 2624	B 0.08 2624	B 0.14 2624
39	B 0.12 1208	B 0.18 1208	B 0.11 1208	B 0.11 1208	B 0.12 1208	B 0.14 1208	B 0.1 1208	B 0.16 1208
40	B 0.09 283	B 0.15 283	B 0.07 283	B 0.08 283	B 0.08 283	B 0.11 283	B 0.05 283	B 0.06 283
41	B 0.02 211	B 0.08 211	B 0.02 211	B 0.02 211	B 0.02 211	B 0.03 211	B 0.01 211	B 0.03 211
42	B 0.05 349	B 0.09 229	B 0.03 229	B 0.03 229	B 0.03 229	B 0.04 229	B 0.02 229	B 0.02 229
43	B 0.1 676	B 0.16 676	B 0.09 676	B 0.1 676	B 0.09 676	B 0.12 676	B 0.06 676	B 0.11 676
44	B 0.13 4390	B 0.18 4390	B 0.11 4390	B 0.11 4390	B 0.12 4390	B 0.15 4390	B 0.09 4390	B 0.16 4390
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.143 5_Inverse_trig_functions\5.2bInversecotangent\5.2.1Inversecotangentfunctions

Table 145: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.01	42	A	0.06	42	A	0.01	42	A	0.	42	A	0.	42	A	0.	42	A	0.	42	A	0.	42
2	A	0.01	26	A	0.06	26	A	0.	26	A	0.	26	A	0.02	26	A	0.	26	A	0.	26	A	0.	26
3	C	0.02	63	C	0.08	63	C	0.02	63	B	0.06	158	B	0.06	158	B	0.06	158	B	0.04	158	B	0.03	158
4	A	0.01	31	A	0.07	31	A	0.01	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31	A	0.	31
5	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
6	A	0.02	82	A	0.08	82	A	0.01	82	C	0.18	97	C	0.09	2979	C	0.09	2979	C	0.08	2979	C	0.11	2979
7	A	0.1	136	A	0.16	136	A	0.12	136	A	0.07	136	B	0.05	191	B	0.05	191	B	0.04	191	B	0.06	191
8	C	0.02	234	C	0.08	234	C	0.01	234	A	0.07	80	B	0.08	130	B	0.05	130	B	0.05	130	B	0.08	130
9	A	0.36	209	A	0.55	209	C	0.79	882	A	0.18	209	B	0.09	4250	B	0.09	4250	B	0.08	4250	B	0.12	4250
10	A	0.2	162	A	0.39	162	C	0.36	4598	A	0.09	162	B	0.08	634	B	0.06	634	B	0.06	634	B	0.09	634
11	A	0.01	38	A	0.06	38	A	0.	38	B	0.16	97	B	0.08	97	B	0.08	97	B	0.06	97	B	0.12	97
12	C	0.02	114	C	0.08	114	C	0.01	114	A	0.05	83	A	0.05	83	A	0.05	83	A	0.04	83	A	0.05	83
13	C	0.1	268	C	0.18	268	C	0.06	268	B	0.2	1003	B	0.16	1003	B	0.15	1003	B	0.13	1003	B	0.19	1003
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	A	0.01	27	A	0.06	27	A	0.01	27	A	0.01	27	A	0.	27	A	0.01	27	A	0.	27	A	0.	27
17	A	0.07	61	A	0.12	61	A	0.1	65	A	0.03	61	A	0.03	57	A	0.03	57	A	0.02	57	A	0.03	57
18	A	0.01	28	A	0.06	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28	A	0.	28
19	A	0.01	27	A	0.07	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.	27	A	0.02	27
20	A	0.01	17	A	0.06	17	A	0.	17	A	0.	17	A	0.02	17	A	0.	17	A	0.	17	A	0.	17
21	A	0.02	20	A	0.07	20	A	0.02	20	A	0.01	20	A	0.02	20	A	0.	20	A	0.	20	A	0.	20
22	C	0.03	57	C	0.08	57	C	0.02	59	C	0.12	143	C	0.11	143	C	0.15	143	C	0.09	143	C	0.14	143
23	A	0.02	104	A	0.08	104	A	0.01	104	A	0.02	104	A	0.01	104	A	0.	104	A	0.01	104	A	0.02	104
24	A	0.02	164	A	0.08	164	A	0.02	164	A	0.02	164	A	0.02	164	A	0.02	164	A	0.01	164	A	0.	164
25	A	0.01	57	A	0.07	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57	A	0.	57
26	C	0.01	68	C	0.07	68	C	0.	68	B	0.01	141	B	0.	141	B	0.01	141	B	0.	141	B	0.	141
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 145 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	C 0.53 183	C 0.57 183	C 0.45 184	C 0.29 184	C 0.23 184	C 0.33 184	C 0.22 184	C 0.44 184
29	A 0.02 1180	A 0.08 1180	A 0.01 1180	A 0.01 550	A 0.02 832	A 0.02 832	A 0.01 832	A 0.02 832
30	C 0.46 1570	C 0.68 1570	C 1.7 19168	B 0.23 1497	B 0.17 9532	B 0.17 9532	B 0.15 9532	B 0.22 9532
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	B 0.48 1142	B 0.58 1142	B 0.39 1142	B 0.31 668	B 0.22 676	B 0.24 676	B 0.19 676	B 0.34 676
33	C 0.83 1551	C 1. 1551	C 0.64 1551	C 0.52 1551	C 0.48 1550	C 0.58 1550	C 0.41 1550	C 0.66 1550
34	C 0.46 1516	C 0.67 1516	C 0.34 1516	C 0.31 1516	C 0.28 1515	C 0.36 1515	C 0.29 1515	C 0.42 1515
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	C 0.11 1498	C 0.18 1498	C 0.08 1498	B 0.24 514	B 0.19 514	B 0.21 514	B 0.16 514	B 0.5 514
37	C 0.05 1756	C 0.12 1756	C 0.08 1638	B 0.22 637	B 0.16 637	B 0.18 637	B 0.14 637	B 0.45 637
38	C 0.57 2687	C 0.74 2687	C 0.74 2687	C 0.42 2687	C 0.41 2683	C 0.47 2683	C 0.37 2683	C 0.72 2683
39	C 0.03 440	C 0.1 440	C 0.15 534	C 0.1 482	C 0.06 594	C 0.06 594	C 0.05 594	C 0.05 594
40	C 2.36 6634	C 2.68 6634	C 2.32 6634	C 1.45 6634	C 1.51 6634	C 1.89 6634	C 1.13 6634	F 0 0
41	C 0.1 1381	C 0.17 1381	C 0.07 1263	B 0.23 322	B 0.17 322	B 0.19 322	B 0.14 322	B 0.48 322
42	C 0.61 1534	C 0.82 1534	C 0.49 1534	C 0.52 1533	C 0.5 1534	C 0.53 1534	C 0.4 1534	C 0.64 1534
43	C 0.38 2687	C 0.57 2687	C 0.42 2687	C 0.32 2687	C 0.29 2683	C 0.39 2683	C 0.34 2683	C 0.66 2683
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	A 0.09 76	A 0.22 76	A 0.08 76	A 0.09 76	A 0.09 76	A 0.09 76	A 0.07 76	A 0.14 76
46	A 0.04 19	A 0.1 19	A 0.03 19	A 0.03 19	A 0.03 19	A 0.03 19	A 0.02 19	A 0.03 19

2.144 5_Inverse_trig_functions\5.2bInversecotangent\5.2.2Exponentialsofinversecotangent

Table 146: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	A 0.01 9	A 0.07 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0.02 9

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Table 146 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
3	A	0.01	23	A	0.07	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
4	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.145 $5_Inverse_trig_functions\5.3aInversesecant\5.3.1u(a+barcsec(cx))^n$

Table 147: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.03	83	A	0.08	83	A	0.02	83	A	0.01	83	A	0.02	83	A	0.02	83	A	0.01	83	A	0.	83
2	A	0.02	65	A	0.07	65	A	0.	65	A	0.01	65	A	0.	65	A	0.	65	A	0.01	65	A	0.	65
3	A	0.09	86	A	0.25	86	A	0.06	86	A	0.05	86	A	0.04	86	A	0.04	86	A	0.04	86	A	0.05	86
4	A	0.02	62	A	0.08	62	A	0.	62	A	0.01	62	A	0.	62	A	0.01	62	A	0.01	62	A	0.02	62
5	A	0.02	83	A	0.08	83	A	0.01	83	A	0.01	83	A	0.02	83	A	0.01	83	A	0.01	83	A	0.	83
6	C	0.3	343	C	0.33	343	C	0.25	343	C	0.2	343	C	0.14	1293	C	0.12	1293	C	0.1	1293	C	0.2	1293
7	A	0.08	215	A	0.26	215	A	0.04	215	A	0.05	215	A	0.05	215	A	0.04	215	A	0.04	215	A	0.06	215
8	B	0.06	199	B	0.12	199	B	0.04	199	B	0.04	199	B	0.03	185	B	0.03	185	B	0.03	185	B	0.05	185
9	B	0.08	390	B	0.26	390	B	0.06	390	B	0.05	390	B	0.05	390	B	0.04	390	B	0.04	390	B	0.03	390
10	B	0.06	324	B	0.12	324	B	0.06	324	B	0.04	324	B	0.05	297	B	0.02	297	B	0.03	297	B	0.03	297
11	B	0.05	47	B	0.11	47	B	0.04	47	B	0.03	47	B	0.03	47	B	0.03	47	B	0.02	47	B	0.02	47
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	C	0.26	456	C	0.32	456	C	0.2	456	C	0.19	456	C	0.14	456	C	0.15	456	C	0.13	456	F	0	0
14	A	0.03	140	A	0.1	140	A	0.02	140	A	0.02	140	A	0.02	140	A	0.02	140	A	0.02	140	A	0.02	140
15	A	0.02	152	A	0.08	152	A	0.01	152	A	0.01	152	A	0.01	152	A	0.01	152	A	0.01	152	A	0.	152
16	A	0.03	286	A	0.09	286	A	0.02	286	A	0.02	286	A	0.02	286	A	0.01	286	A	0.02	286	A	0.02	286
17	A	0.03	223	A	0.11	223	A	0.02	223	A	0.02	223	A	0.03	223	A	0.02	223	A	0.02	223	A	0.03	223
18	C	1.24	374	C	1.21	374	C	2.65	376	C	0.91	376	C	0.59	472	C	0.66	472	C	0.44	472	C	0.89	472

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Table 147 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
19	C 0.59 589	C 0.79 589	C 0.58 592	C 0.39 592	C 0.22 1151	C 0.25 1151	C 0.2 1151	F 0 0
20	C 2.57 1887	C 2.59 1887	C 2.92 1889	C 2.14 1889	C 1.36 2805	C 1.41 2805	C 1.07 2805	C 3.6 2805
21	C 1.72 2357	C 1.68 2358	C 1.55 2362	C 0.99 2362	C 0.55 9128	C 0.62 9128	C 0.48 9128	C 0.67 9128
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.146 5_Inverse_trig_functions\5.3aInversesecant\5.3.2Inversesecantfunctions

Table 148: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	A 0.03 57	A 0.08 57	A 0.01 57	A 0.01 57	A 0. 57	A 0.01 57	A 0.01 57	A 0.02 57
3	A 0.04 98	A 0.09 98	A 0.02 98	A 0.02 98	A 0.02 98	A 0.01 98	A 0.01 98	A 0.02 98
4	B 0.04 509	B 0.09 509	B 0.04 509	B 0.02 509	B 0.02 509	B 0.02 509	B 0.02 509	B 0.02 509
5	B 0.02 359	B 0.09 359	B 0.01 359	B 0.01 359	B 0. 359	B 0.01 359	B 0.02 359	B 0.02 359
6	B 0.04 452	B 0.1 452	B 0.02 452	B 0.02 452	B 0.02 452	B 0.02 452	B 0.03 452	B 0.02 452

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Table 148 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
7	C 0.4 540	C 0.48 540	C 0.35 540	C 0.22 540	C 0.12 3642	C 0.12 3642	C 0.11 3642	C 0.16 3642
8	C 0.13 179	C 0.19 179	C 0.1 179	C 0.09 179	C 0.08 273	C 0.08 273	C 0.07 273	C 0.09 273
9	A 0.44 770	A 0.52 770	A 0.39 770	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.147 $5_Inverse_trig_functions\5.3bInversecosecant\5.3.1u(a+barccsc(cx))^n$

Table 149: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.03 83	A 0.08 83	A 0.02 83	A 0.01 83	A 0. 83	A 0. 83	A 0.01 83	A 0. 83
2	A 0.01 65	A 0.08 65	A 0. 65	A 0. 65	A 0. 65	A 0. 65	A 0.01 65	A 0. 65
3	A 0.08 140	A 0.27 140	A 0.04 140	A 0.05 140	A 0.05 140	A 0.04 140	A 0.04 140	A 0.03 140
4	A 0.02 83	A 0.08 83	A 0.01 83	A 0. 83	A 0. 83	A 0. 83	A 0.01 83	A 0.02 83
5	B 0.24 327	B 0.31 327	B 0.26 327	B 0.19 327	B 0.11 1277	B 0.1 1277	B 0.09 1277	B 0.17 1277
6	B 0.08 361	B 0.27 361	B 0.05 361	B 0.05 361	B 0.05 361	B 0.04 361	B 0.04 361	B 0.03 361
7	B 0.06 191	B 0.12 191	B 0.03 191	B 0.04 191	B 0.03 193	B 0.03 193	B 0.03 193	B 0.02 193
8	B 0.08 666	B 0.27 666	B 0.06 666	B 0.05 666	B 0.06 666	B 0.05 666	B 0.04 666	B 0.05 666
9	B 0.06 315	B 0.12 315	B 0.03 315	B 0.04 315	B 0.03 306	B 0.03 306	B 0.03 306	B 0.03 306
10	B 0.05 48	B 0.11 48	B 0.03 48	B 0.03 48	B 0.03 48	B 0.03 48	B 0.02 48	B 0.02 48
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	C 0.39 881	C 0.47 881	C 0.29 881	C 0.28 881	C 0.23 881	C 0.38 881	C 0.22 881	F 0 0
13	A 0.02 140	A 0.08 140	A 0. 140	A 0.01 140	A 0.02 140	A 0. 140	A 0.01 140	A 0. 140
14	A 0.02 152	A 0.08 152	A 0. 152	A 0.01 152	A 0. 152	A 0. 152	A 0.01 152	A 0. 152
15	A 0.02 286	A 0.08 286	A 0.01 286	A 0.01 286	A 0. 286	A 0.01 286	A 0.01 286	A 0. 286
16	A 0.02 223	A 0.09 223	A 0. 223	A 0.01 223	A 0. 223	A 0.01 223	A 0.01 223	A 0. 223
17	C 0.5 407	C 0.59 407	C 0.53 409	C 0.4 409	C 0.31 505	C 0.32 505	C 0.2 505	C 0.42 505

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Table 149 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
18	C 0.55 591	C 0.73 591	C 0.6 594	C 0.34 594	C 0.17 1153	C 0.19 1153	C 0.16 1153	F 0 0
19	C 0.67 1888	C 0.69 1888	C 0.97 1890	C 0.68 1890	C 0.47 2830	C 0.46 2830	C 0.37 2830	C 1.59 2830
20	C 1. 1722	C 0.99 1722	C 1.18 1724	C 0.84 1724	C 0.53 1342	C 0.53 1342	C 0.41 1342	C 1.34 1342
21	C 0.96 2329	C 1.07 2330	C 1.12 2334	C 0.62 2334	C 0.36 9118	C 0.4 9118	C 0.32 9118	C 0.48 9118
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.148 5_Inverse_trig_functions\5.3bInversecosecant\5.3.2Inversecosecantfunctions

Table 150: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	A 0.01 57	A 0.08 57	A 0. 57	A 0.01 57	A 0. 57	A 0.01 57	A 0.01 57	A 0.02 57
3	B 0.02 507	B 0.08 507	B 0.02 507	B 0.02 507	B 0. 507	B 0.01 507	B 0.02 507	B 0.03 507
4	B 0.02 360	B 0.08 360	B 0. 360	B 0.01 360	B 0. 360	B 0. 360	B 0.01 360	B 0.02 360
5	B 0.02 272	B 0.09 272	B 0.01 272	B 0.01 272	B 0. 272	B 0.01 272	B 0.02 272	B 0. 272
6	B 0.04 848	B 0.1 848	B 0.02 848	B 0.02 848	B 0.02 848	B 0.02 848	B 0.03 848	B 0.03 848

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Table 150 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
7	A 0.46 545	A 0.54 545	A 0.43 545	A 0.32 545	B 0.14 3647	B 0.16 3647	B 0.14 3647	B 0.19 3647
8	A 0.08 167	A 0.15 167	A 0.09 167	A 0.07 167	B 0.06 261	B 0.05 261	B 0.05 261	B 0.05 261
9	A 0.45 809	A 0.53 809	A 0.4 809	A 0.31 809	B 0.16 4013	B 0.16 4013	B 0.14 4013	B 0.2 4013
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.149 $6_Hyperbolic_functions\6.1aHyperbolic\sinh\6.1.1(c+dx)^m(a+b\sinh)^n$

Table 151: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.01 308	B 0.08 308	B 0.01 308	B 0.01 308	B 0. 308	B 0. 308	B 0. 308	B 0. 308
2	A 0.06 133	A 0.12 133	A 0.06 133	A 0.04 133	A 0.05 133	A 0.04 133	A 0.03 133	A 0.05 133
3	B 0.02 910	B 0.08 910	B 0.01 910	B 0.01 910	B 0.02 910	B 0.01 910	B 0. 910	B 0.02 910
4	B 0.02 523	B 0.08 523	B 0.01 523	B 0.01 523	B 0. 523	B 0. 523	B 0. 523	B 0. 523
5	A 0.12 152	A 0.18 152	A 0.09 152	A 0.06 152	A 0.06 152	A 0.06 152	A 0.04 152	A 0.08 152
6	B 0.1 1217	B 0.09 1252	B 0.01 1252	B 0.01 1252	B 0.02 1252	B 0.01 1252	B 0. 1252	B 0. 1252
7	A 0.02 115	A 0.08 129	A 0.01 129	A 0. 129	A 0. 129	A 0. 129	A 0. 129	A 0. 129
8	A 0.13 271	A 0.2 271	A 0.1 271	A 0.06 271	A 0.05 271	A 0.06 271	A 0.04 271	A 0.05 271
9	B 0.06 473	B 0.11 473	B 0.04 473	B 0.05 473	B 0.03 473	B 0.03 473	B 0.03 473	B 0.05 473
10	A 0.03 56	A 0.1 56	A 0.02 56	A 0.02 56	A 0.03 56	A 0.02 56	A 0.01 56	A 0.03 56
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	C 0.07 120	C 0.11 120	C 0.06 120	C 0.05 120	C 0.03 120	C 0.05 120	C 0.03 120	C 0.03 120
15	C 0.04 120	C 0.1 120	C 0.03 120	C 0.03 120	C 0.03 120	C 0.02 120	C 0.02 120	C 0.03 120
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 151 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
18	C 0.1 73	C 0.12 73	C 0.05 79	C 0.06 79	C 0.05 79	C 0.05 79	C 0.04 79	C 0.05 79
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	B 0.02 494	B 0.09 494	B 0.01 494	B 0.01 494	B 0.02 494	B 0.01 494	B 0. 494	B 0. 494
22	B 0.02 96	B 0.08 96	B 0.01 96	B 0. 96	B 0. 96	B 0. 96	B 0. 96	B 0.02 96
23	A 0.21 193	A 0.27 193	A 0.15 193	A 0.08 193	A 0.05 193	A 0.05 193	A 0.05 193	A 0.08 193
24	A 0.24 313	A 0.31 313	A 0.17 313	A 0.1 313	A 0.09 313	A 0.09 313	A 0.07 313	A 0.11 313
25	B 0.12 435	B 0.2 435	B 0.11 435	B 0.1 435	B 0.09 435	B 0.12 435	B 0.08 435	B 0.14 441
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	A 0.19 374	A 0.28 374	A 0.19 374	A 0.12 374	A 0.09 374	A 0.11 374	A 0.09 374	B 0.16 378
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	B 0.02 91	B 0.08 91	B 0.01 91	B 0.01 91	B 0. 91	B 0. 91	B 0. 91	B 0.02 91
33	B 0.08 296	B 0.15 296	B 0.06 296	B 0.07 296	B 0.06 296	B 0.07 296	B 0.05 296	B 0.06 296
34	A 0.03 208	A 0.09 208	A 0.01 208	A 0. 208	A 0. 208	A 0. 208	A 0. 208	A 0.02 208
35	A 0.16 201	A 0.24 201	A 0.1 201	A 0.04 201	A 0.03 201	A 0.04 201	A 0.03 201	A 0.05 201
36	A 0.18 319	A 0.25 319	A 0.12 319	A 0.04 319	A 0.05 319	A 0.04 319	A 0.04 319	A 0.06 319
37	C 0.23 1232	C 0.32 1232	C 0.27 1232	C 0.16 1232	C 0.11 1232	C 0.12 1232	C 0.1 1232	C 0.17 1232
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.150 6_Hyperbolic_functions\6.1aHyperbolic_sine\6.1.3(ex)^m(a+bsinh(c+dxⁿ))^p

Table 152: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	45	A	0.08	45	A	0.01	45	A	0.01	45	A	0.02	45	A	0.02	45	A	0.01	45	A	0.02	45
2	A	0.05	74	A	0.11	74	A	0.05	74	A	0.04	74	A	0.03	74	A	0.04	74	A	0.03	74	A	0.05	74
3	A	0.05	55	A	0.18	55	A	0.04	55	A	0.03	55	A	0.02	55	A	0.02	55	A	0.02	55	A	0.03	55
4	A	0.06	69	A	0.13	69	A	0.04	69	A	0.04	69	A	0.03	69	A	0.02	69	A	0.02	69	A	0.05	69
5	A	0.06	93	A	0.13	93	A	0.04	93	A	0.02	93	A	0.03	93	A	0.02	93	A	0.02	93	A	0.	93
6	A	0.1	157	A	0.19	157	A	0.07	157	A	0.06	157	A	0.06	157	A	0.06	157	A	0.05	157	A	0.08	157
7	A	0.07	86	A	0.13	86	A	0.05	86	A	0.04	86	A	0.05	86	A	0.04	86	A	0.05	86	A	0.08	86
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	A	0.08	103	A	0.14	103	A	0.06	103	A	0.06	103	A	0.06	103	A	0.05	103	A	0.04	103	A	0.06	103
12	A	0.05	58	A	0.11	58	A	0.03	58	A	0.03	58	A	0.02	58	A	0.03	58	A	0.02	58	A	0.03	58
13	C	0.12	74	C	0.15	74	C	0.07	82	C	0.06	82	C	0.06	82	C	0.05	82	C	0.05	82	C	0.11	82
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	A	0.14	67	A	0.22	67	A	0.08	67	A	0.06	67	A	0.05	67	A	0.05	67	A	0.04	67	A	0.06	67
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	A	0.02	63	A	0.09	63	A	0.01	63	A	0.01	63	A	0.	63	A	0.	63	A	0.	63	A	0.	63
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	B	0.02	1815	B	0.09	1815	B	0.01	1815	B	0.01	1815	B	0.	1815	B	0.	1815	B	0.	1815	B	0.	1815
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.151 $6_Hyperbolic_functions\backslash 6.1aHyperbolic\ sine\backslash 6.1.4(d+ex)^m \sinh(a+bx+cx^2)^n$

Table 153: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.08 252	A 0.14 252	A 0.06 252	A 0.06 252	A 0.05 252	A 0.05 252	A 0.04 252	A 0.08 252
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	A 0.13 141	A 0.23 141	A 0.08 141	A 0.07 141	A 0.04 141	A 0.04 141	A 0.04 141	A 0.08 141
4	A 0.1 137	A 0.23 137	A 0.08 137	A 0.07 137	A 0.05 137	A 0.05 137	A 0.05 137	A 0.08 137
5	A 0.08 77	A 0.14 77	A 0.07 77	A 0.06 77	A 0.05 77	A 0.05 77	A 0.03 77	A 0.05 77
6	B 0.09 493	B 0.16 493	B 0.07 493	B 0.07 493	B 0.05 493	B 0.06 493	B 0.05 493	B 0.08 493
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.152 6_Hyperbolic_functions\6.1aHyperbolicsine\6.1.5Hyperbolicsinefunctions

Table 154: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 27	A 0.08 27	A 0.01 27	A 0. 27	A 0.02 27	A 0. 27	A 0. 27	A 0. 27
2	A 0.01 23	A 0.08 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
3	A 0.1 33	A 0.07 46	A 0.01 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
4	A 0.08 174	A 0.11 174	A 0.03 174	A 0.05 174	A 0.02 174	A 0.04 174	A 0.03 174	A 0.03 174
5	A 0.05 87	A 0.1 87	A 0.03 87	A 0.03 87	A 0.02 87	A 0.02 87	A 0.02 87	A 0.02 87
6	A 0.08 93	A 0.12 93	A 0.03 93	A 0.04 93	A 0.03 93	A 0.04 93	A 0.03 93	A 0.03 91
7	A 0.06 68	A 0.12 68	A 0.03 68	A 0.04 68	A 0.03 68	A 0.03 68	A 0.03 68	A 0.03 68
8	A 0.07 119	A 0.12 120	A 0.04 120	A 0.04 119	A 0.05 119	A 0.04 120	A 0.04 120	A 0.05 120
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	B 0.04 29	B 0.11 29	B 0.03 29	B 0.03 29	B 0.03 29	B 0.02 29	B 0.01 29	B 0.02 29
13	B 0.07 116	B 0.15 116	B 0.05 116	B 0.03 116	B 0.03 116	B 0.03 116	B 0.02 116	B 0.03 116

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Table 154 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
14	A 0.07 92	A 0.14 92	A 0.05 92	A 0.04 92	A 0.01 92	A 0.02 92	A 0.01 92	A 0.02 92
15	A 0.04 20	A 0.11 20	A 0.03 20	A 0.02 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0.02 20
16	A 0.06 88	A 0.13 88	A 0.03 88	A 0.02 88	A 0.02 88	A 0.01 88	A 0.01 88	A 0.02 88
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	A 0.05 108	A 0.12 108	A 0.04 108	A 0.03 108	A 0.02 108	A 0.02 108	A 0.01 108	A 0. 108
19	A 0.08 296	B 0.13 317	B 0.05 317	B 0.04 317	B 0.03 317	B 0.03 317	B 0.02 317	B 0.03 317
20	A 0.07 213	B 0.12 234	B 0.04 234	B 0.03 234	B 0.03 234	B 0.03 234	B 0.02 234	B 0.03 234
21	A 0.09 227	A 0.14 248	A 0.05 248	A 0.03 248	A 0.02 248	A 0.03 248	A 0.01 248	A 0.02 248
22	A 0.03 77	A 0.1 84	A 0.02 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84
23	A 0.16 125	A 0.17 125	A 0.08 125	A 0.08 125	A 0.06 125	A 0.06 125	A 0.07 125	A 0.06 125
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	A 0.05 52	A 0.11 52	A 0.04 52	A 0.02 52	A 0.01 52	A 0.02 52	A 0.01 52	A 0.02 58
27	B 0.05 36	B 0.12 147	B 0.04 147	B 0.01 147	B 0. 147	B 0.01 147	B 0.01 147	B 0. 147
28	B 0.17 822	B 0.19 822	B 0.09 822	B 0.1 822	B 0.09 822	B 0.1 822	B 0.1 822	B 0.11 822
29	A 0.07 23	A 0.1 23	A 0.02 23	A 0.02 23	A 0. 23	A 0. 23	A 0.01 23	A 0.02 23
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	A 0.2 203	A 0.19 203	A 0.11 200	A 0.09 200	A 0.05 200	A 0.07 200	A 0.05 200	A 0.06 200
32	B 0.16 157	B 0.17 157	B 0.08 154	B 0.06 154	B 0.05 154	B 0.03 154	B 0.04 154	B 0.05 154
33	B 0.17 55	B 0.18 55	B 0.1 52	B 0.07 52	B 0.03 52	B 0.04 52	B 0.04 52	B 0.05 52
34	A 0.17 79	A 0.18 79	A 0.1 76	A 0.07 76	A 0.05 76	A 0.03 76	A 0.04 76	A 0.03 76
35	B 0.11 142	B 0.2 142	B 0.11 142	B 0.04 142	B 0.03 142	B 0.03 142	B 0.02 142	B 0.03 142
36	B 0.05 40	B 0.11 40	B 0.04 40	B 0.03 40	B 0.03 40	B 0.02 40	B 0.02 40	B 0.03 40
37	B 0.09 70	B 0.14 70	B 0.06 70	B 0.04 70	B 0.03 70	B 0.03 70	B 0.02 70	B 0.03 70
38	B 0.07 36	B 0.14 36	B 0.06 36	B 0.02 36	B 0.02 36	B 0.01 36	B 0.01 36	B 0.02 36
39	B 0.08 837	B 0.13 837	B 0.04 837	B 0.04 837	B 0.03 837	B 0.03 837	B 0.02 837	B 0.03 837
40	B 0.08 353	B 0.12 242	B 0.04 242	B 0.03 242	B 0.03 242	B 0.05 242	B 0.01 242	B 0.02 242
41	B 0.09 141	B 0.14 442	B 0.05 442	B 0.04 442	B 0.03 442	B 0.04 442	B 0.02 442	B 0.03 442

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Table 154 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
42	A 0.12 266	B 0.18 1071	B 0.08 1071	B 0.06 1071	B 0.06 1071	B 0.06 1071	B 0.03 1071	B 0.05 1071
43	B 0.06 45	B 0.12 45	B 0.04 45	B 0.03 45	B 0.02 45	B 0.02 45	B 0.01 45	B 0.02 47
44	A 0.04 23	A 0.11 23	A 0.03 23	A 0.03 23	A 0.03 23	A 0.03 23	A 0.01 23	A 0.02 23
45	B 0.06 34	B 0.13 34	A 0.04 15	B 0.03 34	B 0.03 34	B 0.03 34	B 0.01 34	B 0.02 34
46	B 0.13 93	B 0.2 93	B 0.11 93	B 0.04 93	B 0.02 93	B 0.03 93	B 0.01 93	B 0.02 93
47	B 0.08 114	B 0.21 114	B 0.07 114	B 0.04 114	B 0.03 114	B 0.03 114	B 0.02 114	B 0.03 120
48	A 0.05 23	A 0.12 23	A 0.05 42	A 0.03 42	A 0.02 42	A 0.02 42	A 0.01 42	A 0.02 42
49	B 0.12 68	B 0.17 68	B 0.09 68	B 0.03 68	B 0.02 68	B 0.03 68	B 0.01 68	B 0.02 68
50	B 0.13 74	B 0.19 74	B 0.1 74	B 0.04 74	B 0.02 74	B 0.03 74	B 0.01 74	B 0.02 74
51	A 0.07 163	B 0.13 456	B 0.06 456	B 0.04 456	B 0.03 456	B 0.03 516	B 0.02 516	B 0.03 516
52	B 0.06 232	B 0.13 232	B 0.04 232	B 0.02 232	B 0.02 232	B 0.02 232	B 0.01 232	B 0.02 232
53	A 0.11 262	B 0.18 1341	B 0.1 1341	B 0.07 1341	B 0.06 1341	B 0.06 1341	B 0.03 1341	B 0.06 1341
54	A 0.06 86	A 0.13 86	A 0.04 86	A 0.03 86	A 0.01 86	A 0.02 86	A 0.01 86	A 0.02 86
55	C 0.08 63	C 0.13 63	C 0.07 66	C 0.04 66	C 0.03 66	C 0.03 66	C 0.02 66	C 0.03 66
56	B 0.28 164	B 0.36 164	B 0.21 164	B 0.15 164	B 0.11 164	B 0.11 164	B 0.09 164	B 0.16 164
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	B 0.08 174	B 0.13 174	B 0.03 174	B 0.03 174	B 0.03 174	B 0.01 174	B 0.01 174	B 0.02 174
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	F 0 0	F 0 0	F 0 0	F 0 0	C 0.14 485	C 0.17 485	C 0.16 485	C 0.26 485
66	A 0.01 36	A 0.08 53	A 0.01 53	A 0.01 53	A 0.01 53	A 0. 53	A 0. 53	A 0. 53
67	A 0.08 150	A 0.11 150	A 0.04 150	A 0.04 150	A 0.02 150	A 0.02 150	A 0.03 150	A 0.03 150
68	A 0.02 38	A 0.08 38	A 0.01 38	A 0.01 38	A 0. 38	A 0. 38	A 0. 38	A 0.02 38
69	A 0.14 120	A 0.27 120	A 0.1 120	A 0.07 120	A 0.06 120	A 0.04 120	A 0.04 120	A 0.05 120

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Table 154 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
70	A 0.09 67	A 0.08 71	A 0.01 71	A 0.01 71	A 0. 71	A 0. 71	A 0. 71	A 0. 71
71	A 0.03 34	A 0.08 34	A 0.02 34	A 0.02 34	A 0. 34	A 0.02 34	A 0.01 34	A 0. 34
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	A 0.11 72	A 0.25 72	A 0.07 72	A 0.07 72	A 0.05 72	A 0.05 72	A 0.04 72	A 0.08 72
74	A 0.11 48	A 0.23 48	A 0.06 48	A 0.06 48	A 0.05 48	A 0.03 48	A 0.04 48	A 0.05 48
75	A 0.17 164	A 0.29 164	A 0.13 164	A 0.11 164	A 0.09 164	A 0.1 164	A 0.08 164	A 0.12 164
76	A 0.18 214	A 0.29 214	A 0.13 214	A 0.14 214	A 0.11 214	A 0.12 214	A 0.1 214	A 0.12 214
77	A 0.06 212	A 0.12 212	A 0.04 212	A 0.04 212	A 0.03 212	A 0.04 212	A 0.03 212	A 0.03 212
78	A 0.07 370	A 0.13 370	A 0.05 370	A 0.05 370	A 0.05 370	A 0.05 370	A 0.04 370	A 0.06 370

2.153 $6_Hyperbolic_functions\backslash 6.1aHyperbolicsine\backslash 6.1.7hyper^m(a+bsinh^n)^p$

Table 155: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.03 56	A 0.09 76	A 0.02 76	A 0. 76	A 0. 76	A 0.02 76	A 0. 76	A 0.02 76
2	A 0.02 66	A 0.09 70	A 0.01 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70
3	A 0.01 32	A 0.08 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
4	A 0.12 40	A 0.12 42	A 0.04 42	A 0.02 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
5	A 0.11 102	A 0.1 141	A 0.02 141	A 0. 141	A 0. 141	A 0. 141	A 0. 141	A 0. 141
6	A 0.07 79	A 0.13 88	A 0.05 88	A 0.02 88	A 0.02 88	A 0. 88	A 0. 88	A 0. 88
7	A 0.21 77	A 0.13 100	A 0.04 100	A 0.01 100	A 0. 100	A 0.02 100	A 0. 100	A 0. 100
8	B 0.13 670	B 0.19 670	B 0.1 670	B 0.08 670	B 0.08 670	B 0.06 670	B 0.03 670	B 0.05 670
9	B 0.06 98	B 0.13 98	B 0.04 98	B 0.03 98	B 0.02 98	B 0.01 98	B 0.02 98	B 0.02 98
10	B 0.07 267	B 0.15 267	B 0.06 267	B 0.05 267	B 0.05 267	B 0.04 267	B 0.02 267	B 0.02 267
11	A 0.07 74	A 0.14 74	A 0.05 74	A 0.03 74	A 0.01 74	A 0.02 74	A 0.01 74	A 0.02 74
12	B 0.06 341	B 0.13 341	B 0.04 341	B 0.02 341	B 0.02 341	B 0.02 341	B 0.01 341	B 0.02 341

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Table 155 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
13	B	0.18	1819	B	0.25	2126	B	0.14	2126	B	0.12	2126	B	0.09	2126	B	0.1	2126	B	0.04	2126	B	0.06	2126
14	B	0.24	5147	B	0.31	8298	B	0.2	8298	B	0.22	8298	B	0.17	8298	B	0.18	8298	B	0.06	8298	B	0.08	8298
15	B	0.03	17	B	0.09	17	B	0.02	17	B	0.02	17	B	0.	17	B	0.01	17	B	0.	17	B	0.	17
16	B	0.04	52	B	0.1	82	B	0.03	82	B	0.02	82	B	0.02	82	B	0.01	82	B	0.	82	B	0.02	82
17	B	0.04	92	B	0.09	92	B	0.03	92	B	0.02	92	B	0.02	92	B	0.	92	B	0.01	92	B	0.	92
18	A	0.07	65	A	0.11	65	A	0.04	65	A	0.03	65	A	0.02	65	A	0.02	65	A	0.02	65	A	0.03	65
19	A	0.12	65	A	0.14	65	A	0.05	65	A	0.04	65	A	0.03	65	A	0.03	65	A	0.03	65	A	0.03	65
20	A	0.03	82	A	0.1	105	A	0.02	105	A	0.	105	A	0.	105	A	0.	105	A	0.	105	A	0.	105
21	A	0.06	40	A	0.13	40	A	0.03	40	A	0.02	40	A	0.	40	A	0.	40	A	0.	40	A	0.02	40
22	A	0.18	66	A	0.16	80	A	0.05	80	A	0.02	80	A	0.02	80	A	0.	80	A	0.	80	A	0.	80
23	A	0.14	108	A	0.2	126	A	0.06	126	A	0.02	126	A	0.	126	A	0.	126	A	0.	126	A	0.	126
24	C	0.12	128	C	0.16	128	C	0.08	130	C	0.05	130	C	0.03	130	C	0.03	130	C	0.02	130	C	0.02	130
25	C	0.1	129	C	0.15	129	C	0.05	131	C	0.03	131	C	0.03	131	C	0.03	131	C	0.01	131	C	0.02	131
26	C	0.16	146	C	0.2	146	C	0.08	148	C	0.05	148	C	0.02	148	C	0.02	148	C	0.01	148	C	0.02	148
27	A	0.14	78	A	0.13	92	A	0.05	92	A	0.02	92	A	0.02	92	A	0.	92	A	0.	92	A	0.	92
28	A	0.11	111	A	0.1	131	A	0.02	131	A	0.	131	A	0.	131	A	0.	131	A	0.	131	A	0.	131
29	A	0.07	74	A	0.13	89	A	0.05	89	A	0.02	89	A	0.01	89	A	0.	89	A	0.	89	A	0.	89
30	A	0.07	92	A	0.14	106	A	0.05	106	A	0.02	106	A	0.	106	A	0.	106	A	0.	106	A	0.	106
31	A	0.08	125	A	0.15	157	A	0.06	157	A	0.02	157	A	0.02	157	A	0.	157	A	0.	157	A	0.02	157
32	A	0.08	128	A	0.14	155	A	0.06	155	A	0.02	155	A	0.	155	A	0.	155	A	0.	155	A	0.	155
33	A	0.17	166	A	0.17	204	A	0.07	204	A	0.02	204	A	0.	204	A	0.	204	A	0.	204	A	0.	204
34	A	0.23	202	A	0.16	256	A	0.07	256	A	0.02	256	A	0.	256	A	0.	256	A	0.	256	A	0.	256
35	A	0.19	163	A	0.14	203	A	0.04	203	A	0.02	203	A	0.	203	A	0.	203	A	0.	203	A	0.	203
36	A	0.23	145	A	0.16	226	A	0.06	226	A	0.02	226	A	0.01	226	A	0.	226	A	0.	226	A	0.	226
37	A	0.1	126	A	0.17	126	A	0.08	126	A	0.06	126	A	0.06	126	A	0.06	126	A	0.04	126	A	0.03	126
38	B	0.25	3111	B	0.46	941	B	0.31	941	B	0.32	941	B	0.28	941	B	0.32	941	B	0.15	941	B	0.25	941
39	C	0.16	574	C	0.2	702	C	0.09	704	C	0.07	704	C	0.05	704	C	0.06	704	C	0.04	704	C	0.11	704
40	B	0.33	8478	B	1.41	3836	B	1.15	3836	B	1.18	3836	B	1.2	3836	B	1.33	3836	B	0.58	3836	B	0.95	3836

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Table 155 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
41	C	0.21	2214	C	0.28	6206	C	0.15	6222	C	0.12	6222	C	0.12	6222	C	0.13	6222	C	0.1	6222	C	0.34	6222
42	C	0.08	113	C	0.12	113	C	0.04	115	C	0.02	115	C	0.02	115	C	0.02	115	C	0.01	115	C	0.02	115
43	C	0.07	61	C	0.12	61	C	0.05	61	C	0.04	61	C	0.03	61	C	0.03	61	C	0.02	61	C	0.03	61
44	C	0.07	124	C	0.13	124	C	0.05	91	C	0.03	91	C	0.03	91	C	0.03	91	C	0.03	91	C	0.05	91
45	C	0.07	160	C	0.12	160	C	0.05	120	C	0.04	120	C	0.03	120	C	0.04	120	C	0.03	120	C	0.03	120
46	B	0.04	78	B	0.1	78	B	0.03	78	B	0.03	78	B	0.02	78	B	0.01	78	B	0.01	78	B	0.	78
47	C	0.02	11	C	0.09	11	C	0.02	11	C	0.01	11	C	0.	11	C	0.	11	C	0.	11	C	0.02	11
48	B	0.05	94	B	0.11	88	B	0.04	88	B	0.02	88	B	0.02	88	B	0.01	88	B	0.01	88	B	0.	88
49	A	0.03	25	A	0.09	25	A	0.01	25	A	0.01	25	A	0.	25	A	0.	25	A	0.	25	A	0.02	25
50	A	0.05	39	A	0.11	39	A	0.02	39	A	0.02	39	A	0.	39	A	0.01	39	A	0.	39	A	0.02	39
51	A	0.12	29	A	0.12	37	A	0.03	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
52	A	0.06	134	A	0.14	134	A	0.03	134	A	0.01	134	A	0.02	134	A	0.	134	A	0.	134	A	0.	134
53	A	0.02	41	A	0.09	41	A	0.01	41	A	0.01	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41
54	B	0.17	376	B	0.17	316	B	0.05	316	B	0.02	316	B	0.	316	B	0.01	316	B	0.	316	B	0.	316
55	B	0.11	993	B	0.19	993	B	0.07	993	B	0.08	993	B	0.06	993	B	0.06	993	B	0.02	993	B	0.05	993
56	B	0.12	662	B	0.2	607	B	0.1	607	B	0.07	607	B	0.05	607	B	0.04	607	B	0.02	607	B	0.03	607
57	B	0.19	1539	B	0.26	4115	B	0.15	4115	B	0.14	4115	B	0.11	4115	B	0.12	4115	B	0.04	4115	B	0.05	4115
58	B	0.15	1363	B	0.28	3048	B	0.16	3048	B	0.12	3048	B	0.11	3048	B	0.11	3048	B	0.04	3048	B	0.06	3048
59	B	0.21	1696	B	0.34	10004	B	0.21	10004	B	0.2	10004	B	0.17	10004	B	0.17	10004	B	0.06	10004	B	0.09	10004
60	B	0.22	2651	B	0.3	11196	B	0.16	11196	B	0.18	11196	B	0.16	11196	B	0.18	11196	B	0.06	11196	B	0.09	11196
61	A	0.03	85	A	0.09	85	A	0.02	85	A	0.02	85	A	0.	85	A	0.01	85	A	0.	85	A	0.	85
62	B	0.23	1926	B	0.34	7889	B	0.21	7889	B	0.2	7889	B	0.19	7889	B	0.2	7889	B	0.06	7889	B	0.09	7889
63	B	0.06	98	B	0.12	98	B	0.05	98	B	0.04	98	B	0.02	98	B	0.03	98	B	0.01	98	B	0.02	98
64	B	0.37	643	B	0.44	1026	B	0.2	1026	B	0.14	1026	B	0.11	1026	B	0.1	1026	B	0.08	1026	B	0.11	1026
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	A	0.12	74	A	0.14	74	A	0.05	74	A	0.04	74	A	0.02	74	A	0.01	74	A	0.03	74	A	0.02	74
67	A	0.1	79	A	0.14	79	A	0.05	79	A	0.04	79	A	0.02	79	A	0.02	79	A	0.03	79	A	0.03	79
68	A	0.09	102	A	0.14	102	A	0.04	102	A	0.04	102	A	0.03	102	A	0.03	102	A	0.03	102	A	0.02	102

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Table 155 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
69	A	0.15	297	A	0.17	297	A	0.07	297	A	0.06	297	A	0.05	297	A	0.04	297	A	0.05	299	A	0.05	299
70	A	0.06	24	A	0.1	24	A	0.03	24	A	0.02	24	A	0.02	24	A	0.01	24	A	0.01	24	A	0.02	24
71	A	0.03	38	A	0.1	38	A	0.02	38	A	0.01	38	A	0.02	38	A	0.01	38	A	0.01	38	A	0.02	38

2.154 $6_Hyperbolic_functions\6.1bHyperboliccosine\6.1.1(c+dx)^m(a+b\cosh)^n$

Table 156: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.02	308	B	0.08	308	B	0.01	308	B	0.01	308	B	0.02	308	B	0.	308	B	0.	308	B	0.	308
2	A	0.04	133	A	0.11	133	A	0.03	133	A	0.03	133	A	0.03	133	A	0.03	133	A	0.02	133	A	0.03	133
3	B	0.02	910	B	0.09	910	B	0.01	910	B	0.01	910	B	0.02	910	B	0.	910	B	0.	910	B	0.	910
4	B	0.02	523	B	0.08	523	B	0.01	523	B	0.01	523	B	0.	523	B	0.	523	B	0.	523	B	0.	523
5	A	0.09	152	A	0.15	152	A	0.06	152	A	0.04	152	A	0.03	152	A	0.04	152	A	0.03	152	A	0.05	152
6	B	0.1	1217	B	0.09	1252	B	0.01	1252	B	0.01	1252	B	0.02	1252	B	0.01	1252	B	0.	1252	B	0.02	1252
7	A	0.02	115	A	0.09	129	A	0.01	129	A	0.01	129	A	0.	129	A	0.	129	A	0.	129	A	0.	129
8	A	0.12	271	A	0.19	271	A	0.1	271	A	0.05	271	A	0.05	271	A	0.04	271	A	0.03	271	A	0.06	271
9	C	0.01	449	C	0.08	449	C	0.01	449	C	0.01	449	C	0.	449	C	0.01	449	C	0.	449	C	0.	449
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	C	0.05	133	C	0.11	133	C	0.03	133	C	0.03	133	C	0.03	133	C	0.03	133	C	0.02	133	C	0.03	133
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 156 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
19	C 0.05 67	C 0.12 67	C 0.07 70	C 0.08 70	C 0.08 70	C 0.08 70	C 0.07 70	C 0.11 70
20	C 0.06 71	C 0.12 71	C 0.04 77	C 0.05 77	C 0.05 77	C 0.04 77	C 0.04 77	C 0.06 77
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	B 0.03 1071	B 0.1 1071	B 0.02 1071	B 0.01 1071	B 0. 1071	B 0.01 1071	B 0. 1071	B 0.02 1071
24	B 0.03 541	B 0.09 541	B 0.01 541	B 0.01 541	B 0. 541	B 0.01 541	B 0. 541	B 0. 541
25	A 0.14 191	A 0.21 191	A 0.1 191	A 0.05 191	A 0.03 191	A 0.04 191	A 0.03 191	A 0.05 191
26	B 0.08 325	B 0.15 325	B 0.08 325	B 0.06 325	B 0.05 325	B 0.05 325	B 0.04 325	B 0.06 325
27	B 0.06 174	B 0.13 174	B 0.05 174	B 0.04 174	B 0.05 174	B 0.03 174	B 0.03 174	B 0.02 174
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	B 0.02 240	B 0.09 240	B 0.01 240	B 0.01 240	B 0. 240	B 0. 240	B 0. 240	B 0. 240
33	A 0.05 149	A 0.12 149	A 0.04 149	A 0.04 149	A 0.03 149	A 0.03 149	A 0.02 149	A 0.05 149
34	A 0.03 208	A 0.1 208	A 0.01 208	A 0.01 208	A 0. 208	A 0.01 208	A 0. 208	A 0. 208
35	A 0.14 319	A 0.21 319	A 0.11 319	A 0.05 319	A 0.03 319	A 0.05 319	A 0.04 319	A 0.06 319
36	C 0.12 585	C 0.18 585	C 0.14 585	C 0.1 585	C 0.06 585	C 0.07 585	C 0.06 585	C 0.09 585
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.155 $\int \frac{1}{\sqrt{1-x^2}} \operatorname{arccosh}(a+bx^n) dx$

Table 157: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.02 356	B 0.09 356	B 0.01 356	B 0.01 356	B 0. 356	B 0. 356	B 0. 356	B 0.02 356
2	B 0.02 224	B 0.08 224	B 0.01 224	B 0.01 224	B 0. 224	B 0. 224	B 0. 224	B 0. 224

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Table 157 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
3	A 0.08 205	A 0.16 205	A 0.07 205	A 0.08 205	A 0.06 205	A 0.06 205	A 0.04 205	A 0.08 205
4	A 0.11 118	A 0.31 118	A 0.08 118	A 0.08 118	A 0.06 118	A 0.06 118	A 0.06 118	A 0.09 118
5	A 0.1 181	A 0.17 181	A 0.08 181	A 0.08 181	A 0.06 181	A 0.07 181	A 0.06 181	A 0.08 181
6	A 0.09 287	A 0.16 287	A 0.07 287	A 0.07 287	A 0.06 287	A 0.06 287	A 0.05 287	A 0.06 287
7	A 0.14 442	A 0.42 442	A 0.1 442	A 0.14 442	A 0.12 442	A 0.13 442	A 0.11 442	A 0.16 442
8	A 0.1 281	A 0.16 281	A 0.07 281	A 0.08 281	A 0.06 281	A 0.07 281	A 0.05 281	A 0.06 281
9	B 0.15 643	B 0.21 643	B 0.11 643	B 0.12 643	B 0.11 643	B 0.1 643	B 0.09 643	B 0.12 643
10	A 0.08 81	A 0.35 81	A 0.05 81	A 0.06 81	A 0.05 81	A 0.06 81	A 0.04 81	A 0.08 81
11	A 0.09 200	A 0.15 200	A 0.07 200	A 0.07 200	A 0.06 200	A 0.06 200	A 0.05 200	A 0.08 200
12	A 0.14 546	A 0.2 546	A 0.11 546	A 0.12 546	A 0.11 546	A 0.1 546	A 0.08 546	A 0.11 546
13	B 0.4 820	B 0.45 820	B 0.34 820	B 0.35 820	B 0.33 820	B 0.36 820	B 0.27 820	B 0.56 820
14	B 0.02 551	B 0.08 551	B 0.01 551	B 0.01 551	B 0. 551	B 0. 551	B 0. 551	B 0. 551
15	A 0.18 265	A 0.46 265	A 0.14 265	A 0.17 265	A 0.16 265	A 0.14 265	A 0.12 265	A 0.22 265
16	C 0.15 925	C 0.41 925	C 0.08 971	C 0.12 971	C 0.09 971	C 0.1 971	C 0.08 971	C 0.16 971
17	C 0.07 280	C 0.11 280	C 0.03 304	C 0.03 304	C 0.02 304	C 0.02 304	C 0.02 304	C 0.03 304
18	C 0.07 143	C 0.1 143	C 0.02 151	C 0.02 151	C 0.02 151	C 0.02 151	C 0.01 151	C 0.03 151
19	C 0.12 187	C 0.16 187	C 0.07 189	C 0.07 189	C 0.06 189	C 0.05 189	C 0.05 189	C 0.08 189
20	C 0.19 594	C 0.23 594	C 0.13 634	C 0.14 634	C 0.11 634	C 0.12 634	C 0.1 634	C 0.22 634
21	C 0.76 2448	C 0.7 2448	C 0.49 2496	C 0.53 2496	C 0.5 2496	C 0.55 2496	C 0.43 2496	C 1.08 2496
22	C 0.19 1927	C 0.24 1927	C 0.12 1967	C 0.12 1967	C 0.12 1967	C 0.13 1967	C 0.1 1967	C 0.17 1967
23	C 0.11 810	C 0.16 810	C 0.06 834	C 0.07 834	C 0.06 834	C 0.07 834	C 0.05 834	C 0.08 834

2.156 6_Hyperbolic_functions\6.1bHyperboliccosine\6.1.3(ex)^m(a+bcosh(c+dxⁿ))^p

Table 158: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 45	A 0.09 45	A 0.01 45	A 0.02 45	A 0.02 45	A 0.01 45	A 0.01 45	A 0.02 45
2	A 0.03 58	A 0.1 58	A 0.02 58	A 0.02 58	A 0.02 58	A 0.02 58	A 0.01 58	A 0.02 58
3	A 0.05 69	A 0.12 69	A 0.03 69	A 0.03 69	A 0.02 69	A 0.02 69	A 0.02 69	A 0.03 69
4	A 0.08 70	A 0.14 70	A 0.06 70	A 0.06 70	A 0.05 70	A 0.05 70	A 0.04 70	A 0.06 70
5	A 0.06 44	A 0.13 44	A 0.04 44	A 0.04 44	A 0.03 44	A 0.03 44	A 0.04 44	A 0.06 44
6	A 0.04 33	A 0.11 33	A 0.03 33	A 0.03 33	A 0.03 33	A 0.02 33	A 0.01 33	A 0.02 33
7	A 0.12 40	A 0.19 40	A 0.08 40	A 0.06 40	A 0.03 40	A 0.04 40	A 0.03 40	A 0.03 40
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	C 0.16 110	C 0.19 110	C 0.14 136	C 0.12 136	C 0.09 136	C 0.11 136	C 0.1 136	C 0.3 136
10	A 0.07 74	A 0.14 74	A 0.05 74	A 0.06 74	A 0.06 74	A 0.04 74	A 0.04 74	A 0.08 74
11	A 0.19 152	A 0.25 152	A 0.14 152	A 0.11 152	A 0.09 152	A 0.1 152	A 0.08 152	A 0.08 152
12	C 0.07 66	C 0.14 66	C 0.05 66	C 0.05 66	C 0.03 66	C 0.04 66	C 0.03 66	C 0.06 66
13	B 0.04 1815	B 0.1 1815	B 0.03 1815	B 0.02 1815	B 0. 1815	B 0.01 1815	B 0. 1815	B 0. 1815
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.157 6_Hyperbolic_functions\6.1bHyperboliccosine\6.1.4(d+ex)^mcosh(a+bx+cx^2)^n

Table 159: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.06 252	A 0.13 252	A 0.05 252	A 0.06 252	A 0.05 252	A 0.04 252	A 0.04 252	A 0.06 252
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	A 0.09 141	A 0.22 141	A 0.06 141	A 0.06 141	A 0.03 141	A 0.05 141	A 0.04 141	A 0.06 141
4	A 0.09 137	A 0.22 137	A 0.06 137	A 0.06 137	A 0.05 137	A 0.04 137	A 0.04 137	A 0.06 137
5	A 0.07 77	A 0.13 77	A 0.04 77	A 0.04 77	A 0.03 77	A 0.03 77	A 0.02 77	A 0.05 77
6	B 0.08 493	B 0.15 493	B 0.06 493	B 0.06 493	B 0.06 493	B 0.06 493	B 0.05 493	B 0.08 493

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Table 159 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.158 6_Hyperbolic_functions\6.1bHyperboliccosine\6.1.5Hyperboliccosinefunctions

Table 160: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 27	A 0.08 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
2	A 0.02 23	A 0.08 30	A 0.01 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0.02 30
3	A 0.1 33	A 0.08 46	A 0.01 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
4	B 0.09 195	B 0.12 195	B 0.04 195	B 0.04 195	B 0.03 195	B 0.04 195	B 0.04 195	B 0.06 195
5	B 0.05 142	B 0.1 142	B 0.02 142	B 0.02 142	B 0.02 142	B 0.02 142	B 0.02 142	B 0.02 142
6	B 0.04 59	B 0.1 59	B 0.03 59	B 0.02 59	B 0.02 59	B 0.01 59	B 0.01 59	B 0.02 59
7	A 0.02 34	A 0.09 34	A 0.01 34	A 0.01 34	A 0. 34	A 0.01 34	A 0. 34	A 0. 34
8	A 0.04 39	A 0.1 39	A 0.03 39	A 0.03 39	A 0. 39	A 0.01 39	A 0. 39	A 0.02 39
9	A 0.02 14	A 0.08 14	A 0.01 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
10	A 0.02 56	A 0.08 56	A 0.02 56	A 0.01 56	A 0. 56	A 0. 56	A 0. 56	A 0. 56
11	A 0.02 16	A 0.09 16	A 0.02 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
12	A 0.07 73	A 0.11 73	A 0.02 73	A 0.02 73	A 0.02 73	A 0.02 73	A 0.02 73	A 0. 73
13	A 0.09 92	A 0.11 92	A 0.03 92	A 0.02 92	A 0.03 92	A 0.02 90	A 0.02 90	A 0.02 90
14	B 0.04 174	B 0.11 174	B 0.03 174	B 0.02 174	B 0.03 174	B 0.02 174	B 0.01 174	B 0.02 174
15	A 0.06 146	A 0.12 123	A 0.04 123	A 0.03 123	A 0.03 123	A 0.02 123	A 0.01 123	A 0.02 123
16	A 0.11 155	A 0.1 179	A 0.01 179	A 0. 179	A 0.02 179	A 0. 179	A 0. 179	A 0. 179
17	A 0.03 77	A 0.1 84	A 0.01 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84	A 0. 84
18	B 0.14 494	B 0.15 494	B 0.06 502	B 0.06 502	B 0.06 494	B 0.06 502	B 0.06 502	B 0.08 494
19	B 0.1 298	B 0.12 298	B 0.03 304	B 0.03 304	B 0.03 298	B 0.03 304	B 0.04 306	B 0.03 300
20	A 0.09 198	A 0.12 198	A 0.04 202	A 0.04 202	A 0.02 198	A 0.03 202	A 0.04 202	A 0.05 198

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Table 160 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
21	A 0.03 26	A 0.1 26	A 0.02 26	A 0.02 26	A 0. 26	A 0.01 26	A 0. 26	A 0. 26
22	B 0.11 1080	B 0.14 1080	B 0.05 1098	B 0.05 1098	B 0.03 1080	B 0.04 1098	B 0.05 1098	B 0.06 1080
23	A 0.05 342	B 0.11 483	B 0.04 483	B 0.02 483	B 0.02 483	B 0.01 483	B 0.01 483	B 0. 483
24	B 0.04 107	B 0.11 107	B 0.04 107	B 0.03 107	B 0.01 107	B 0.02 107	B 0.01 107	B 0. 107
25	B 0.17 914	B 0.18 914	B 0.09 914	B 0.09 914	B 0.08 914	B 0.09 914	B 0.09 914	B 0.12 914
26	B 0.18 157	B 0.18 157	B 0.09 154	B 0.08 154	B 0.03 154	B 0.04 154	B 0.04 154	B 0.05 154
27	A 0.18 95	A 0.18 95	A 0.1 92	A 0.07 92	A 0.05 92	A 0.04 92	A 0.04 92	A 0.03 92
28	A 0.03 24	A 0.09 24	A 0.02 24	A 0.01 24	A 0.02 24	A 0. 24	A 0. 24	A 0. 24
29	A 0.01 9	A 0.08 9	A 0.01 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9	A 0. 9
30	B 0.08 208	B 0.17 208	B 0.09 208	B 0.02 208	B 0.03 208	B 0.02 208	B 0.01 208	B 0.02 208
31	B 0.07 107	B 0.15 107	B 0.07 107	B 0.02 107	B 0.02 107	B 0.01 107	B 0. 107	B 0. 107
32	B 0.06 87	B 0.12 87	B 0.04 87	B 0.02 87	B 0.03 87	B 0.01 87	B 0.01 87	B 0. 87
33	B 0.04 103	B 0.11 103	B 0.04 103	B 0.02 103	B 0.02 103	B 0.02 103	B 0.01 103	B 0.02 103
34	A 0.02 12	A 0.08 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
35	A 0.04 67	A 0.1 67	A 0.03 67	A 0.02 67	A 0.02 67	A 0.01 67	A 0. 67	A 0.02 67
36	A 0.05 97	A 0.12 97	A 0.04 97	A 0.02 97	A 0.01 97	A 0.02 97	A 0.01 97	A 0.02 97
37	B 0.12 115	B 0.2 107	B 0.11 107	B 0.02 107	B 0.02 107	B 0.01 107	B 0.01 107	B 0.02 107
38	A 0.05 45	A 0.11 45	A 0.03 45	A 0.01 45	A 0.02 45	A 0.01 45	A 0. 45	A 0. 45
39	A 0.05 36	A 0.11 36	A 0.04 36	A 0.02 36	A 0.03 36	A 0.02 36	A 0.01 36	A 0. 36
40	A 0.07 144	A 0.13 216	A 0.05 216	A 0.03 216	A 0. 216	A 0.01 216	A 0.01 216	A 0.02 216
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	B 0.15 231	B 0.2 231	B 0.13 231	B 0.13 231	B 0.09 231	B 0.09 231	B 0.08 231	B 0.11 231
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 160 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	C 0.13 860	C 0.29 860	C 0.09 860	C 0.08 860	C 0.05 860	C 0.06 860	C 0.05 860	F 0 0
52	B 0.06 263	B 0.1 263	B 0.02 263	B 0.02 263	B 0.02 263	B 0.02 263	B 0.02 263	B 0.02 263
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	A 0.02 67	A 0.08 71	A 0.01 71	A 0.01 71	A 0.02 71	A 0. 71	A 0. 71	A 0. 71
55	A 0.02 22	A 0.08 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0.02 22
56	A 0.03 34	A 0.09 34	A 0.02 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0. 34	A 0. 34
57	C 0.07 25	C 0.12 25	C 0.05 25	C 0.04 25	C 0.02 25	C 0.02 25	C 0.02 25	C 0.03 25
58	C 0.11 36	C 0.14 36	C 0.12 36	C 0.09 36	C 0.03 36	C 0.05 36	C 0.03 36	C 0.05 36
59	A 0.08 143	A 0.22 143	A 0.05 143	A 0.04 143	A 0.03 143	A 0.04 143	A 0.03 143	A 0.05 143
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	A 0.15 132	A 0.28 132	A 0.1 132	A 0.1 132	A 0.08 132	A 0.08 132	A 0.07 132	A 0.11 132
62	A 0.11 129	A 0.24 129	A 0.08 129	A 0.09 129	A 0.08 129	A 0.08 129	A 0.06 129	A 0.09 129
63	A 0.12 172	A 0.26 172	A 0.09 172	A 0.11 172	A 0.08 172	A 0.09 172	A 0.07 172	A 0.11 172
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	A 0.03 212	A 0.1 212	A 0.02 212	A 0.02 212	A 0.03 212	A 0.02 212	A 0.01 212	A 0.02 212
66	A 0.03 370	A 0.1 370	A 0.02 370	A 0.02 370	A 0.02 370	A 0.02 370	A 0.02 370	A 0.03 370

2.159 $6_Hyperbolic_functions\backslash 6.1bHyperboliccosine\backslash 6.1.7hyper^m(a+bcosh^n)^p$

Table 161: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.04 78	B 0.11 78	B 0.03 78	B 0.02 78	B 0.01 78	B 0.01 78	B 0.01 78	B 0.02 78
2	A 0.02 8	A 0.09 8	A 0.01 8	B 0.01 16	B 0. 16	B 0. 16	B 0. 16	B 0. 16
3	B 0.04 97	B 0.12 97	B 0.04 97	B 0.03 97	B 0.02 97	B 0.01 97	B 0.01 97	B 0.02 97

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Table 161 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
4	B 0.09 351	B 0.17 342	B 0.1 351	B 0.11 351	B 0.1 342	B 0.1 351	B 0.05 351	B 0.08 351
5	B 0.07 189	B 0.15 183	B 0.07 189	B 0.07 189	B 0.06 183	B 0.08 183	B 0.04 189	B 0.05 189
6	B 0.06 81	B 0.14 78	B 0.05 81	B 0.05 81	B 0.05 78	B 0.06 81	B 0.03 81	B 0.05 81
7	B 0.1 310	B 0.17 254	B 0.08 257	B 0.07 257	B 0.06 254	B 0.07 254	B 0.04 257	B 0.06 257
8	B 0.06 110	B 0.14 107	B 0.06 110	B 0.07 110	B 0.06 107	B 0.07 110	B 0.03 110	B 0.03 110
9	B 0.03 16	B 0.09 16	B 0.02 16	B 0.01 16	B 0. 16	B 0.01 16	B 0. 16	B 0. 16
10	A 0.06 16	A 0.1 16	A 0.02 16	A 0.02 16	A 0.02 16	A 0.02 16	A 0.01 16	A 0.02 16
11	C 0.06 121	C 0.11 121	C 0.03 124	C 0.02 124	C 0.02 124	C 0.02 124	C 0.01 124	C 0. 124
12	C 0.04 62	C 0.1 62	C 0.03 62	C 0.02 62	C 0.02 62	C 0.01 62	C 0.01 62	C 0.02 62
13	C 0.07 47	C 0.12 47	C 0.05 45	C 0.04 45	C 0.03 45	C 0.05 45	C 0.04 45	C 0.08 45
14	C 0.08 136	C 0.14 136	C 0.06 136	C 0.04 136	C 0.03 136	C 0.04 136	C 0.02 136	C 0.03 136
15	A 0.04 12	A 0.09 12	A 0.02 12	A 0.03 12	A 0.02 12	A 0.01 12	A 0.01 12	A 0.02 12
16	A 0.16 21	A 0.11 21	A 0.1 21	A 0.11 21	A 0. 21	A 0.08 21	A 0.08 21	A 0.02 21
17	A 0.04 38	A 0.1 38	A 0.02 38	A 0.01 38	A 0.02 38	A 0.01 38	A 0.01 38	A 0. 38

2.160 $6_Hyperbolic_functions\6.2aHyperbolic\6.2.1(c+dx)^m(a+b\tanh)^n$

Table 162: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.06 394	B 0.19 394	B 0.04 394	B 0.03 394	B 0.03 394	B 0.03 394	B 0.03 394	B 0.03 394
2	B 0.05 234	B 0.18 234	B 0.03 234	B 0.02 234	B 0.02 234	B 0.02 234	B 0.02 234	B 0.03 234
3	A 0.04 65	A 0.18 65	A 0.03 65	A 0.02 65	A 0.02 65	A 0.02 65	A 0.01 65	A 0.02 65
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 162 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	A 0.09 90	A 0.23 90	A 0.07 90	A 0.05 90	A 0.03 90	A 0.04 90	A 0.03 90	A 0.06 90
10	A 0.13 163	A 0.37 163	A 0.1 163	A 0.07 163	A 0.05 163	A 0.05 163	A 0.05 163	A 0.08 163
11	B 0.08 873	B 0.22 873	B 0.05 873	B 0.05 873	B 0.06 873	B 0.04 873	B 0.04 873	B 0.06 873
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	B 0.17 1143	B 0.31 1143	B 0.12 1143	B 0.1 1143	B 0.08 1143	B 0.09 1143	B 0.08 1143	B 0.11 1143
14	B 0.12 357	B 0.25 357	B 0.08 357	B 0.06 357	B 0.05 357	B 0.05 357	B 0.04 357	B 0.06 357
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.161 6_Hyperbolic_functions\6.2aHyperbolictangent\6.2.2Hyperbolictangentfunctions

Table 163: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 56	A 0.08 56	A 0.01 56	A 0.01 56	A 0. 56	A 0.01 56	A 0. 56	A 0. 56
2	B 0.01 30	B 0.08 30	B 0. 30	B 0. 30	B 0. 30	B 0. 30	B 0. 30	B 0.02 30
3	B 0.01 41	B 0.07 41	B 0. 41	B 0. 41	B 0.02 41	B 0.02 41	B 0. 41	B 0.02 41
4	A 0.05 80	A 0.11 80	A 0.03 80	A 0.03 80	A 0.03 80	A 0.02 80	A 0.01 80	A 0.02 80
5	A 0.03 47	A 0.1 47	A 0.02 47	A 0.02 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47
6	A 0.04 64	A 0.11 64	A 0.03 64	A 0.03 64	A 0.02 64	A 0.02 64	A 0.01 64	A 0. 64
7	A 0.03 102	A 0.08 102	A 0.03 102	A 0.03 102	A 0.02 102	A 0.02 102	A 0.01 102	A 0. 102
8	A 0.04 53	A 0.1 53	A 0.02 53	A 0.01 53	A 0.02 53	A 0. 53	A 0. 53	A 0.02 53
9	A 0.03 56	A 0.1 56	A 0.03 56	A 0.03 56	A 0.03 56	A 0.02 52	A 0.01 52	A 0. 52
10	A 0.06 46	A 0.1 46	A 0.03 46	A 0.01 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.04 90	A 0.11 90	A 0.02 90	A 0.02 90	A 0.02 90	A 0.01 90	A 0. 90	A 0. 90

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Table 163 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
13	A 0.04 76	A 0.09 76	A 0.02 76	A 0.02 76	A 0. 76	A 0.02 76	A 0.01 76	A 0. 76
14	A 0.06 166	A 0.13 166	A 0.02 166	A 0.02 166	A 0.02 166	A 0.02 166	A 0.01 166	A 0.02 166
15	B 0.05 72	B 0.11 72	B 0.04 72	B 0.02 72	B 0.02 72	B 0.01 72	B 0.01 72	B 0.02 72
16	A 0.05 17	A 0.11 17	A 0.03 17	A 0.02 17	A 0.02 17	A 0.01 17	A 0.01 17	A 0. 17
17	B 0.05 80	B 0.12 80	B 0.04 80	B 0.02 80	B 0.01 80	B 0.01 80	B 0. 80	B 0.02 80
18	A 0.07 110	A 0.14 110	A 0.05 110	A 0.03 110	A 0.02 110	A 0.01 110	A 0.01 110	A 0.02 110
19	B 0.07 166	B 0.14 166	B 0.05 166	B 0.04 166	B 0.03 166	B 0.01 166	B 0.01 166	B 0.02 166
20	A 0.04 6	A 0.1 6	A 0.01 6	A 0.01 6	B 0.02 22	B 0.01 22	B 0.01 22	B 0. 22
21	B 0.04 34	B 0.1 34	B 0.02 34	B 0.01 34	B 0. 34	B 0.01 34	B 0. 34	B 0.02 34
22	A 0.04 12	A 0.11 12	A 0.02 12	A 0.01 12	B 0.02 38	B 0.01 38	B 0.01 38	B 0.02 38
23	A 0.02 55	A 0.07 55	A 0.01 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55
24	B 0.08 354	B 0.14 354	B 0.05 354	B 0.04 354	B 0.03 354	B 0.03 354	B 0.01 354	B 0.02 354
25	B 0.06 110	B 0.12 110	B 0.03 110	B 0.02 110	B 0.02 110	B 0.02 110	B 0.01 110	B 0.02 110
26	A 0.03 39	A 0.1 39	A 0.02 39	A 0.01 39	A 0. 39	A 0. 39	A 0. 39	A 0. 39
27	A 0.07 198	A 0.14 198	A 0.05 198	A 0.03 198	A 0.02 198	A 0.02 198	A 0.01 198	A 0.02 198
28	A 0.1 185	A 0.15 185	A 0.06 185	A 0.04 185	A 0.02 185	A 0.02 185	A 0.01 185	A 0.02 185
29	C 0.18 129	C 0.21 129	C 0.12 131	C 0.07 131	C 0.03 131	C 0.04 131	C 0.04 131	C 0.06 131
30	A 0.02 88	A 0.08 88	A 0. 88	A 0.02 88	A 0. 88	A 0. 88	A 0. 88	A 0. 88
31	A 0.17 52	A 0.18 52	A 0.09 52	A 0.07 52	A 0.03 52	A 0.05 52	A 0.05 52	A 0.05 52
32	A 0.02 56	A 0.09 56	A 0.01 56	A 0.01 56	A 0. 56	A 0.01 56	A 0. 56	A 0.02 56
33	A 0.02 34	A 0.08 34	A 0.01 34	A 0. 34	A 0. 34	A 0.01 34	A 0. 34	A 0. 34
34	A 0.02 47	A 0.09 47	A 0.01 47	A 0. 47	A 0.02 47	A 0. 47	A 0. 47	A 0. 47
35	C 0.1 35	C 0.15 35	C 0.07 35	C 0.06 35	C 0.03 35	C 0.04 35	C 0.03 35	C 0.05 35
36	C 0.15 47	C 0.17 47	C 0.1 47	C 0.08 47	C 0.05 47	C 0.05 47	C 0.04 47	C 0.05 47
37	C 0.12 138	C 0.18 138	C 0.1 138	C 0.07 138	C 0.06 138	C 0.06 138	C 0.05 138	C 0.05 138
38	C 0.47 215	C 0.53 215	C 0.24 575	C 0.13 578	C 0.07 578	C 0.16 215	C 0.06 575	C 0.11 575
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.162 $6_Hyperbolic_functions\backslash6.2aHyperbolictangent\backslash6.2.7(dhyper)^m(a+b(ctanh)^n)^p$

Table 164: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.05 66	A 0.12 66	A 0.03 66	A 0.01 66	A 0. 66	A 0. 66	A 0. 66	A 0. 66
2	A 0.06 44	A 0.13 44	A 0.03 44	A 0.01 44	A 0. 44	A 0.01 44	A 0. 44	A 0. 44
3	B 0.12 181	B 0.19 181	B 0.08 181	B 0.04 181	B 0.02 181	B 0.02 181	B 0.01 181	B 0.02 181
4	B 0.15 750	B 0.24 750	B 0.11 750	B 0.07 750	B 0.05 750	B 0.05 750	B 0.03 750	B 0.05 750
5	B 0.14 331	B 0.21 426	B 0.1 426	B 0.05 426	B 0.03 426	B 0.03 426	B 0.01 426	B 0.03 426
6	B 0.25 2246	B 0.35 8711	B 0.22 8711	B 0.2 8711	B 0.16 8711	B 0.17 8711	B 0.08 8711	B 0.11 8711
7	B 0.22 1416	B 0.36 9099	B 0.22 9099	B 0.2 9099	B 0.14 9099	B 0.14 9099	B 0.06 9099	B 0.08 9099
8	A 0.07 122	A 0.14 122	A 0.05 122	A 0.02 122	A 0. 122	A 0.01 122	A 0. 122	A 0. 122
9	A 0.15 65	A 0.15 47	A 0.04 47	A 0.02 47	A 0.02 47	A 0. 47	A 0. 47	A 0.02 47
10	A 0.09 225	A 0.16 206	A 0.06 206	A 0.02 206	A 0.01 206	A 0. 206	A 0. 206	A 0. 206
11	B 0.24 275	B 0.25 268	B 0.07 268	B 0.02 268	B 0.02 268	B 0.01 268	B 0. 268	B 0.02 268
12	A 0.06 82	A 0.13 86	A 0.04 86	A 0.02 86	A 0. 86	A 0. 86	A 0. 86	A 0. 86
13	A 0.05 54	A 0.12 54	A 0.03 54	A 0.02 54	A 0. 54	A 0. 54	A 0. 54	A 0. 54
14	A 0.13 75	B 0.13 92	B 0.04 92	B 0.02 92	B 0. 92	B 0. 92	B 0. 92	B 0. 92
15	B 0.16 236	A 0.16 199	A 0.05 199	A 0.02 199	A 0.01 199	A 0.01 199	A 0. 199	A 0. 199
16	B 0.1 235	B 0.17 235	B 0.07 235	B 0.05 235	B 0.03 235	B 0.03 235	B 0.02 235	B 0. 235
17	B 0.12 836	B 0.2 834	B 0.09 834	B 0.06 834	B 0.05 834	B 0.04 834	B 0.02 834	B 0.03 834
18	B 0.18 1121	B 0.28 3722	B 0.14 3722	B 0.12 3722	B 0.08 3722	B 0.08 3722	B 0.04 3722	B 0.06 3722
19	B 0.3 2439	B 0.37 9824	B 0.21 9824	B 0.18 9824	B 0.12 9824	B 0.14 9824	B 0.05 9824	B 0.09 9824
20	B 0.02 104	B 0.08 104	B 0.01 104	B 0.01 104	B 0. 104	B 0.01 104	B 0. 104	B 0. 104
21	B 0.01 100	B 0.08 100	B 0.01 100	B 0.01 100	B 0. 100	B 0.01 100	B 0. 100	B 0.02 100
22	A 0.06 46	A 0.13 46	A 0.04 46	A 0.01 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46
23	A 0.07 68	A 0.14 68	A 0.05 68	A 0.01 68	A 0. 68	A 0.01 68	A 0. 68	A 0.02 68
24	B 0.01 149	B 0.08 149	B 0.01 149	B 0.01 149	B 0. 149	B 0.01 149	B 0. 149	B 0. 149
25	B 0.01 144	B 0.08 144	B 0.01 144	B 0.01 144	B 0. 144	B 0.01 144	B 0. 144	B 0. 144

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Table 164 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
26	A 0.08 59	A 0.14 59	A 0.04 59	A 0.01 59	A 0. 59	A 0. 59	A 0. 59	A 0. 59
27	A 0.09 94	A 0.16 94	A 0.06 94	A 0.02 94	A 0.02 94	A 0. 94	A 0. 94	A 0.02 94
28	A 0.09 161	A 0.16 161	A 0.07 161	A 0.02 161	A 0. 161	A 0.01 161	A 0. 161	A 0. 161
29	A 0.03 95	A 0.1 95	A 0.02 95	A 0.03 95	A 0.01 95	A 0.02 95	A 0.01 95	A 0.02 95
30	A 0.03 75	A 0.1 75	A 0.02 75	A 0.02 75	A 0.03 75	A 0.01 75	A 0.01 75	A 0.02 75
31	B 0.11 121	B 0.18 121	B 0.08 121	B 0.04 121	B 0.03 121	B 0.02 121	B 0.01 121	B 0. 121
32	B 0.05 172	B 0.12 172	B 0.03 172	B 0.03 172	B 0.02 172	B 0.02 172	B 0.01 172	B 0.02 172
33	A 0.04 118	A 0.11 91	A 0.03 91	A 0.03 91	A 0.01 91	A 0.02 91	A 0.01 91	A 0.02 91
34	A 0.05 113	A 0.12 87	A 0.02 87	A 0.03 87	A 0.03 87	A 0.02 87	A 0.01 87	A 0.02 87
35	B 0.04 172	A 0.12 136	A 0.03 136	A 0.03 136	A 0.02 136	A 0.02 136	A 0.01 136	A 0.02 136
36	B 0.22 1020	B 0.32 2380	B 0.16 2380	B 0.1 2380	B 0.06 2380	B 0.08 2380	B 0.04 2380	B 0.06 2380
37	A 0.04 15	A 0.09 15	A 0.02 15	A 0.01 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
38	B 0.06 288	B 0.11 288	B 0.04 288	B 0.03 288	B 0.02 288	B 0.01 288	B 0.01 288	B 0. 288
39	B 0.05 238	B 0.11 238	B 0.03 238	B 0.02 238	B 0.02 238	B 0.01 238	B 0.01 238	B 0.02 238
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	B 0.04 633	B 0.11 633	B 0.03 633	B 0.03 633	B 0.03 633	B 0.02 633	B 0.01 633	B 0.02 633
42	B 0.04 578	B 0.1 578	B 0.02 578	B 0.02 578	B 0.02 578	B 0.02 578	B 0.01 578	B 0. 578
43	B 0.05 97	B 0.11 97	B 0.03 97	B 0.02 97	B 0.02 97	B 0.01 97	B 0.01 97	B 0.02 97
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	B 0.04 289	B 0.1 289	B 0.02 289	B 0.02 289	B 0.02 289	B 0.02 289	B 0.01 289	B 0.02 289
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	B 0.05 420	B 0.11 420	B 0.04 420	B 0.02 420	B 0.02 420	B 0.02 420	B 0.01 420	B 0.02 420
50	A 0.04 41	A 0.1 41	A 0.02 41	A 0.02 41	A 0.02 41	A 0.02 41	A 0.01 41	A 0. 41
51	C 0.11 620	C 0.14 620	C 0.07 620	C 0.06 620	C 0.03 620	C 0.04 620	C 0.04 620	C 0.05 620
52	A 0.05 116	A 0.12 116	A 0.04 116	A 0.04 116	A 0.05 116	A 0.03 116	A 0.03 116	A 0.03 116
53	C 0.12 637	C 0.17 637	C 0.08 637	C 0.08 637	C 0.06 637	C 0.07 637	C 0.07 637	C 0.09 637

2.163 6_Hyperbolic_functions\6.2bHyperboliccotangent\6.2.1(c+dx)^m(a+bcoth)^n

Table 165: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.04 200	B 0.18 200	B 0.03 200	B 0.02 200	B 0.01 200	B 0.02 200	B 0.02 200	B 0.02 200
2	A 0.04 54	A 0.17 54	A 0.02 54	A 0.02 54	A 0.03 54	A 0.02 54	A 0.01 54	A 0.02 54
3	A 0.09 92	B 0.13 449	A 0.07 92	A 0.05 92	A 0.05 92	A 0.03 92	A 0.03 92	A 0.05 92
4	A 0.08 46	B 0.12 165	A 0.06 46	A 0.04 46	A 0.02 46	A 0.03 46	A 0.02 46	A 0.03 46
5	A 0.08 61	A 0.21 61	A 0.06 61	A 0.04 61	A 0.03 61	A 0.03 61	A 0.03 61	A 0.03 61
6	A 0.12 106	A 0.33 106	A 0.1 106	A 0.07 106	A 0.05 106	A 0.05 106	A 0.04 106	A 0.05 106
7	A 0.16 212	B 0.16 2070	A 0.12 212	A 0.09 212	A 0.06 212	A 0.06 212	A 0.06 212	A 0.09 212
8	A 0.14 102	B 0.15 779	A 0.11 102	A 0.07 102	A 0.05 102	A 0.05 102	A 0.04 102	A 0.06 102
9	A 0.14 151	A 0.48 151	A 0.12 151	A 0.08 151	A 0.05 151	A 0.05 151	A 0.04 151	A 0.05 151
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	B 0.28 2039	B 0.43 2039	B 0.22 2423	B 0.18 2039	B 0.12 2039	B 0.15 2423	B 0.12 2039	B 0.17 2039
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.164 6_Hyperbolic_functions\6.2bHyperboliccotangent\6.2.2Hyperboliccotangentfunctions

Table 166: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.05 63	A 0.12 63	A 0.03 63	A 0.03 63	A 0.03 63	A 0.02 63	A 0.01 63	A 0.02 63
2	A 0.04 65	A 0.11 65	A 0.03 65	A 0.03 65	A 0.03 65	A 0.02 65	A 0.01 65	A 0.02 65
3	A 0.05 83	A 0.11 83	A 0.03 83	A 0.03 83	A 0.02 83	A 0.02 83	A 0.01 83	A 0.02 83
4	A 0.03 209	A 0.11 209	A 0.03 209	A 0.02 209	A 0.03 209	A 0.01 209	A 0.01 209	A 0.02 209

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Table 166 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
5	A 0.03 193	A 0.1 193	A 0.02 193	A 0.02 193	A 0.02 193	A 0.02 193	A 0.01 193	A 0.02 193
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0.05 45	A 0.1 45	A 0.02 45	A 0.02 45	A 0.02 45	A 0. 45	A 0. 45	A 0.02 45
8	A 0.04 81	A 0.11 81	A 0.02 79	A 0.03 81	A 0.02 79	A 0.02 79	A 0.01 79	A 0. 79
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	A 0.05 89	A 0.12 86	A 0.03 86	A 0.03 86	A 0.02 89	A 0.02 89	A 0.01 89	A 0. 86
11	B 0.15 119	B 0.26 119	B 0.04 119	B 0.04 119	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.04 77	A 0.1 77	A 0.02 77	A 0.01 77	A 0.02 77	A 0. 77	A 0. 77	A 0. 77
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	A 0.01 31	A 0.08 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
15	A 0.01 19	A 0.07 19	A 0. 19	A 0.01 19	A 0. 19	A 0. 19	A 0. 19	A 0. 19
16	A 0.04 43	A 0.09 43	A 0.02 43	A 0.02 43	A 0. 43	A 0.02 43	A 0. 43	A 0.02 43
17	A 0.02 17	A 0.09 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17
18	B 0.01 246	B 0.08 246	B 0.01 246	B 0.01 246	B 0. 246	B 0.02 246	B 0.01 246	B 0. 246
19	A 0.03 46	A 0.1 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.02 46	A 0.01 46	A 0. 46
20	A 0.08 63	A 0.11 63	A 0.03 63	A 0.03 63	A 0.02 63	A 0.02 63	A 0.01 63	A 0.02 63
21	B 0.04 32	B 0.1 32	B 0.03 32	B 0.02 32	B 0.02 32	B 0.01 32	B 0. 32	B 0. 32
22	A 0.07 197	A 0.14 197	A 0.05 197	A 0.04 197	A 0.03 197	A 0.02 197	A 0.01 197	A 0.02 197
23	B 0.06 118	B 0.12 118	B 0.04 118	B 0.03 118	B 0.02 118	B 0.02 118	B 0.01 118	B 0.02 118
24	B 0.05 82	B 0.11 82	B 0.04 82	B 0.02 82	B 0.03 82	B 0.02 82	B 0.01 82	B 0.02 82
25	B 0.05 42	B 0.11 42	B 0.03 42	B 0.02 42	B 0.02 42	B 0.02 42	B 0.01 42	B 0. 42
26	B 0.05 45	B 0.12 60	B 0.03 60	B 0.02 60	B 0.02 60	B 0.01 60	B 0. 60	B 0.02 60
27	B 0.06 38	B 0.11 89	B 0.04 89	B 0.02 89	B 0.02 89	B 0. 89	B 0. 89	B 0. 89
28	B 0.08 319	B 0.14 319	B 0.06 319	B 0.04 319	B 0.03 319	B 0.04 319	B 0.01 319	B 0.02 319
29	A 0.07 110	A 0.14 110	A 0.06 110	A 0.04 110	A 0.03 110	A 0.03 110	A 0.02 110	A 0.02 110
30	A 0.02 55	A 0.09 55	A 0.01 55	A 0.01 55	A 0.02 55	A 0. 55	A 0. 55	A 0. 55
31	A 0.18 73	A 0.26 73	A 0.12 73	A 0.06 73	A 0.03 73	A 0.04 73	A 0.03 73	A 0.05 73
32	A 0.01 67	A 0.1 67	A 0. 67	A 0. 67	A 0. 67	A 0. 67	A 0. 67	A 0. 67

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Table 166 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
33	A 0.05 92	A 0.1 92	A 0.02 92	A 0.02 92	A 0. 92	A 0.02 92	A 0. 92	A 0.02 92
34	A 0.03 44	A 0.1 44	A 0.01 44	A 0.02 44	A 0. 44	A 0.02 44	A 0. 44	A 0. 44
35	C 0.11 559	C 0.16 559	C 0.06 559	C 0.06 559	C 0.03 559	C 0.05 559	C 0.05 559	C 0.03 559

2.165 $6_Hyperbolic_functions\6.2bHyperboliccotangent\6.2.7(dhyper)^m(a+b(c\coth)^n)^p$

Table 167: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.02 472	B 0.09 472	B 0.01 472	B 0.01 472	B 0.02 472	B 0.01 472	B 0.01 472	B 0. 472
2	B 0.06 608	B 0.13 372	B 0.03 372	B 0.03 372	B 0.02 372	B 0.02 372	B 0.02 372	B 0.02 372
3	B 0.06 276	B 0.11 276	B 0.03 276	B 0.02 276	B 0.02 276	B 0.02 276	B 0.01 276	B 0.02 276
4	B 0.04 238	B 0.1 238	B 0.02 238	B 0.01 238	B 0.02 238	B 0. 238	B 0. 238	B 0. 238
5	B 0.04 238	B 0.1 238	B 0.02 238	B 0.02 238	B 0.02 238	B 0.01 238	B 0.01 238	B 0. 238
6	B 0.03 578	B 0.1 578	B 0.02 578	B 0.01 578	B 0. 578	B 0. 578	B 0. 578	B 0.02 578
7	B 0.04 97	B 0.1 97	B 0.02 97	B 0.01 97	B 0. 97	B 0. 97	B 0. 97	B 0.02 97
8	B 0.04 158	B 0.1 158	B 0.03 158	B 0.02 158	B 0.02 158	B 0.02 158	B 0.01 158	B 0. 158
9	B 0.05 137	B 0.11 137	B 0.03 137	B 0.03 137	B 0.02 137	B 0.01 137	B 0.01 137	B 0.02 137
10	B 0.04 420	B 0.1 420	B 0.02 420	B 0.02 420	B 0.02 420	B 0.02 420	B 0.01 420	B 0. 420
11	A 0.08 37	A 0.14 37	A 0.05 37	A 0.04 37	A 0.02 37	A 0.03 37	A 0.03 37	A 0.03 37

2.166 $6_Hyperbolic_functions\6.3aHyperbolicsecant\6.3.1(c+dx)^m(a+b\sech)^n$

Table 168: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	B 0.04 298	B 0.11 298	B 0.03 298	B 0.03 298	B 0.03 298	B 0.02 298	B 0.02 298	B 0.03 298
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.167 $6_Hyperbolic_functions\6.3aHyperbolicsecant\6.3.2(ex)^m(a+bsech(c+dx^n))^p$

Table 169: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	A 0.02 83	A 0.09 85	A 0.01 85	A 0.01 85	A 0.01 85	A 0. 85	A 0. 85	A 0. 85
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	C 0.25 368	C 0.24 368	C 0.17 368	C 0.13 368	C 0.12 402	C 0.17 710	C 0.15 402	C 0.2 402
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 169 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.168 6_Hyperbolic_functions\6.3aHyperbolicsecant\6.3.3Hyperbolicsecantfunctions

Table 170: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 11	A 0.08 19	A 0.01 19	A 0. 19	A 0.02 19	A 0. 19	A 0. 19	A 0. 19
2	A 0.02 33	A 0.09 54	A 0.01 54	A 0. 54	A 0.02 54	A 0. 54	A 0. 54	A 0. 54
3	A 0.02 27	A 0.08 42	A 0.01 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42	A 0. 42
4	B 0.09 229	B 0.12 229	B 0.04 229	B 0.04 229	B 0.05 229	B 0.03 229	B 0.03 229	B 0.03 229
5	B 0.06 181	B 0.11 181	B 0.02 181	B 0.02 181	B 0.02 181	B 0.02 181	B 0.02 181	B 0.02 181
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	B 0.2 244	B 0.2 244	B 0.1 244	B 0.1 244	B 0.06 198	B 0.07 198	B 0.06 198	B 0.05 198
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	B 0.16 97	B 0.19 97	B 0.09 97	B 0.08 97	F 0 0	F 0 0	F 0 0	F 0 0
10	B 0.14 305	B 0.19 305	B 0.07 305	B 0.07 305	F 0 0	F 0 0	F 0 0	F 0 0
11	B 0.1 196	B 0.14 196	B 0.05 196	B 0.04 196	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0.11 46	A 0.14 46	A 0.05 46	A 0.05 46	F 0 0	F 0 0	F 0 0	F 0 0
14	B 0.06 361	B 0.12 361	B 0.03 361	B 0.03 361	B 0.03 361	B 0.02 361	B 0.01 361	B 0.02 361
15	A 0.04 31	A 0.1 31	B 0.03 78	B 0.02 78	B 0.03 78	B 0.02 78	B 0.01 78	B 0. 78
16	B 0.06 87	B 0.11 87	B 0.04 87	B 0.03 87	B 0.02 87	B 0.01 87	B 0.01 87	B 0. 87
17	A 0.02 21	A 0.09 21	A 0.01 21	A 0.01 21	A 0. 21	A 0. 21	A 0. 21	A 0.02 21
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 170 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
20	A 0.04 121	A 0.12 139	A 0.02 139	A 0. 139	A 0. 139	A 0. 139	A 0. 139	A 0. 139
21	B 0.06 264	B 0.12 264	B 0.04 264	B 0.04 264	B 0.03 264	B 0.02 264	B 0.01 264	B 0.02 264
22	A 0.05 94	A 0.12 94	A 0.04 94	A 0.03 94	A 0.02 94	A 0.02 94	A 0.01 94	A 0.02 94
23	B 0.06 75	B 0.13 73	B 0.05 73	B 0.03 73	B 0.02 73	B 0.02 73	B 0.01 73	B 0.02 73
24	B 0.05 54	B 0.12 54	B 0.03 54	B 0.03 54	B 0.03 54	B 0.01 54	B 0.01 54	B 0.02 54
25	A 0.03 19	A 0.09 19	A 0.02 19	A 0.01 19	A 0.03 19	A 0. 19	A 0.02 19	A 0. 19
26	A 0.06 69	A 0.13 69	A 0.04 69	A 0.03 69	A 0.02 69	A 0.03 69	A 0.01 69	A 0. 69
27	A 0.06 78	A 0.14 78	A 0.04 78	A 0.03 78	A 0.02 78	A 0.02 78	A 0.01 78	A 0.02 78
28	B 0.08 575	B 0.14 422	B 0.06 422	B 0.05 422	B 0.05 422	B 0.03 422	B 0.02 422	B 0.03 422
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	C 0.09 159	C 0.14 159	C 0.04 159	C 0.05 159	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	A 0.04 51	A 0.1 53	A 0.02 53	A 0.01 53	A 0. 53	A 0. 53	A 0. 53	A 0. 53

2.169 $6_Hyperbolic_functions\backslash6.3aHyperbolicsecant\backslash6.3.7(dhyper)^m(a+b(csech)^n)^p$

Table 171: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.05 55	A 0.12 62	A 0.03 62	A 0.01 62	A 0. 62	A 0. 62	A 0. 62	A 0. 62
2	A 0.04 44	B 0.12 60	B 0.03 60	B 0.01 60	B 0. 60	B 0. 60	B 0. 60	B 0.02 60
3	A 0.06 73	B 0.13 96	B 0.04 96	B 0.01 96	B 0.02 96	B 0. 96	B 0. 96	B 0. 96
4	A 0.06 109	A 0.13 113	A 0.04 113	A 0.01 113	A 0. 113	A 0. 113	A 0. 113	A 0. 113
5	A 0.06 72	A 0.12 72	A 0.03 72	A 0.02 72	A 0.02 72	A 0. 72	A 0. 72	A 0. 72
6	A 0.07 138	B 0.14 173	B 0.05 173	B 0.01 173	B 0. 173	B 0. 173	B 0. 173	B 0. 173

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Table 171 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
7	A	0.07	145	A	0.13	143	A	0.04	143	A	0.01	143	A	0.02	143	A	0.	143	A	0.	143	A	0.	143
8	A	0.06	118	A	0.14	118	A	0.04	118	A	0.01	118	A	0.	118	A	0.	118	A	0.	118	A	0.	118
9	A	0.04	44	A	0.11	44	B	0.05	88	B	0.03	88	B	0.03	88	B	0.04	88	B	0.01	88	B	0.02	88
10	B	0.11	144	B	0.22	147	B	0.11	147	B	0.1	147	B	0.09	147	B	0.09	144	B	0.05	147	B	0.06	147
11	B	0.12	431	B	0.18	431	B	0.07	431	B	0.05	431	B	0.03	431	B	0.03	431	B	0.02	431	B	0.02	431
12	B	0.17	571	B	0.47	905	B	0.33	905	B	0.29	905	B	0.27	905	B	0.28	893	B	0.14	905	B	0.23	905
13	B	0.17	1555	B	0.24	1430	B	0.13	1430	B	0.08	1430	B	0.05	1430	B	0.06	1430	B	0.03	1430	B	0.05	1430
14	A	0.04	106	A	0.11	110	A	0.02	110	A	0.01	110	A	0.02	110	A	0.02	110	A	0.	110	A	0.02	110
15	A	0.04	169	A	0.11	175	A	0.02	175	A	0.01	175	A	0.	175	A	0.	175	A	0.	175	A	0.	175
16	A	0.12	116	B	0.11	187	B	0.03	187	B	0.	187	B	0.	187	B	0.	187	B	0.	187	B	0.02	187
17	B	0.14	493	B	0.22	496	B	0.11	496	B	0.1	496	B	0.08	493	B	0.08	493	B	0.04	496	B	0.06	496
18	B	0.07	104	B	0.16	107	B	0.07	107	B	0.06	107	B	0.05	104	B	0.05	104	B	0.03	107	B	0.05	107
19	B	0.18	537	B	0.43	597	B	0.24	733	B	0.24	597	B	0.22	722	B	0.25	722	B	0.12	597	B	0.2	733
20	B	0.12	588	B	0.39	581	B	0.23	737	B	0.25	581	B	0.23	737	B	0.25	581	B	0.12	581	B	0.17	737
21	B	0.22	1567	B	1.42	9746	B	1.15	9746	B	1.16	9746	B	1.19	9614	B	1.24	10458	B	0.56	10458	B	0.95	10326
22	B	0.19	3252	B	1.4	10538	B	1.08	10538	B	1.13	10538	B	1.17	10538	B	1.23	11170	B	0.54	11170	B	0.94	11170
23	A	0.02	29	A	0.09	29	A	0.01	29	A	0.01	29	A	0.02	29	A	0.	29	A	0.	29	A	0.	29
24	A	0.01	16	A	0.08	24	A	0.	24	A	0.	24	A	0.	24	A	0.02	24	A	0.	24	A	0.02	24
25	A	0.05	30	B	0.12	38	B	0.03	38	B	0.01	38	B	0.	38	B	0.	38	B	0.	38	B	0.	38
26	A	0.07	86	A	0.14	86	A	0.04	86	A	0.01	86	A	0.	86	A	0.01	86	A	0.	86	A	0.	86
27	B	0.08	181	B	0.14	191	B	0.04	191	B	0.01	191	B	0.	191	B	0.	191	B	0.	191	B	0.02	191
28	B	0.06	115	B	0.13	113	B	0.04	113	B	0.01	113	B	0.	113	B	0.	113	B	0.	113	B	0.	113
29	A	0.03	38	A	0.09	38	A	0.02	38	A	0.01	38	A	0.02	38	A	0.	38	A	0.	38	A	0.02	38
30	B	0.1	133	B	0.17	133	B	0.06	133	B	0.04	133	B	0.03	133	B	0.02	133	B	0.01	133	B	0.02	133
31	B	0.12	186	B	0.19	186	B	0.08	186	B	0.06	186	B	0.03	186	B	0.05	186	B	0.02	186	B	0.03	186
32	B	0.16	579	B	0.23	795	B	0.11	795	B	0.08	795	B	0.06	795	B	0.06	795	B	0.03	795	B	0.05	795
33	B	0.17	1046	B	0.25	1402	B	0.12	1402	B	0.09	1402	B	0.06	1402	B	0.06	1402	B	0.04	1402	B	0.06	1402
34	B	0.21	1433	B	1.49	5142	B	1.14	5142	B	1.27	5142	B	1.17	5142	B	1.28	5044	B	0.56	5142	B	0.97	5142

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
35	B	0.24	1610	B	1.51	5320	B	1.17	5320	B	1.24	5320	B	1.17	5320	B	1.27	5320	B	0.57	5320	B	0.97	5320
36	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
37	A	0.04	43	A	0.1	43	A	0.02	43	A	0.01	43	A	0.02	43	A	0.01	43	A	0.	43	A	0.	43
38	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
40	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
41	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
43	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.170 $6_Hyperbolic_functions \setminus 6.3bHyperboliccosecant \setminus 6.3.1(c+dx)^m(a+bcsch)^n$

Table 172: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.04	541	B	0.11	541	B	0.04	541	B	0.03	541	B	0.03	541	B	0.03	541	B	0.02	541	B	0.03	541
2	B	0.03	306	B	0.1	306	B	0.02	306	B	0.02	306	B	0.02	306	B	0.03	306	B	0.02	306	B	0.02	306
3	B	0.01	473	B	0.09	473	B	0.	473	B	0.01	473	B	0.02	473	B	0.01	473	B	0.01	473	B	0.02	473
4	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.171 $6_Hyperbolic_functions \setminus 6.3bHyperboliccosecant \setminus 6.3.2(ex)^m(a+bcsch(c+dx^n))^p$

Table 173: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	A 0.03 62	A 0.09 78	A 0.02 78	A 0. 78	A 0. 78	A 0. 78	A 0. 78	A 0. 78
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	C 0.17 155	C 0.23 155	C 0.11 155	C 0.12 155	C 0.12 285	C 0.16 285	C 0.13 285	C 0.12 285
14	C 0.17 327	C 0.24 327	C 0.12 327	C 0.15 327	C 0.11 350	C 0.12 350	C 0.12 350	C 0.11 350
15	F 0 0	F 0 0	F 0 0	F 0 0	C 0.19 1172	C 0.24 1172	C 0.21 1172	C 0.25 1172
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.172 6_Hyperbolic_functions\6.3bHyperboliccosecant\6.3.3Hyperboliccosecantfunctions

Table 174: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.01 12	A 0.08 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
2	A 0.1 33	A 0.09 54	A 0.01 54	A 0. 54	A 0. 54	A 0.02 54	A 0. 54	A 0. 54
3	A 0.07 165	A 0.1 165	A 0.03 165	A 0.03 165	A 0.02 165	A 0.03 165	A 0.03 165	A 0.03 165

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Table 174 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
4	A 0.04 87	A 0.1 87	A 0.01 87	A 0.02 87	A 0.02 87	A 0.02 87	A 0.02 87	A 0.02 87
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	B 0.08 238	B 0.14 238	B 0.05 238	B 0.05 238	F 0 0	F 0 0	F 0 0	F 0 0
10	B 0.09 103	B 0.14 103	B 0.05 103	B 0.05 103	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	B 0.11 230	B 0.2 230	B 0.05 230	B 0.04 230	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	B 0.08 137	B 0.14 137	B 0.06 137	B 0.04 137	B 0.02 137	B 0.03 137	B 0.02 137	B 0.03 139
16	A 0.06 92	A 0.13 117	A 0.02 117	A 0. 117	A 0. 117	A 0.02 117	A 0. 117	A 0. 117
17	A 0.01 20	A 0.08 20	A 0. 20	A 0. 20	A 0. 20	A 0.02 20	A 0. 20	A 0. 20
18	B 0.06 174	B 0.13 174	B 0.04 174	B 0.03 174	B 0.01 174	B 0.02 174	B 0.01 174	B 0. 174
19	B 0.06 84	B 0.12 84	B 0.04 84	B 0.03 84	B 0.03 84	B 0.03 84	B 0.02 84	B 0.02 84
20	A 0.04 20	A 0.11 20	B 0.04 52	B 0.03 52	B 0.03 52	B 0.03 52	B 0.02 52	B 0.03 54
21	A 0.03 31	A 0.1 31	B 0.03 78	B 0.02 78	B 0.02 78	B 0.02 78	B 0.01 78	B 0. 78
22	A 0.06 81	B 0.12 137	B 0.04 137	B 0.03 137	B 0.03 137	B 0.02 137	B 0.01 137	B 0.02 137
23	B 0.08 67	B 0.15 67	B 0.06 67	B 0.04 67	B 0.03 67	B 0.04 67	B 0.02 67	B 0.02 73
24	A 0.08 65	A 0.14 65	A 0.06 65	A 0.04 65	A 0.04 65	A 0.03 65	A 0.02 65	B 0.03 73
25	B 0.05 27	B 0.13 27	B 0.04 27	B 0.04 27	B 0.04 27	B 0.03 27	B 0.02 27	B 0.02 27
26	B 0.1 78	B 0.17 78	B 0.08 78	B 0.06 78	B 0.03 78	B 0.04 78	B 0.02 78	B 0.02 78
27	B 0.13 95	B 0.21 95	B 0.11 95	B 0.04 95	B 0.03 95	B 0.03 95	B 0.02 95	B 0.02 95
28	A 0.1 207	B 0.17 460	B 0.08 460	B 0.06 460	B 0.05 460	B 0.03 496	B 0.02 496	B 0.03 496
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	A 0.09 152	A 0.14 152	A 0.04 152	A 0.05 152	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 174 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	A 0.03 51	A 0.1 53	A 0.02 53	A 0.01 53	A 0. 53	A 0. 53	A 0. 53	A 0. 53

2.173 $6_Hyperbolic_functions\6.3bHyperboliccosecant\6.3.7(dhyper)^m(a+b(ccsch)^n)^p$

Table 175: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.05 129	A 0.12 200	A 0.03 200	A 0. 200	A 0. 200	A 0.02 200	A 0. 200	A 0.02 200
2	A 0.04 47	A 0.11 70	A 0.02 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70	A 0. 70
3	B 0.1 302	B 0.18 302	B 0.08 302	B 0.06 302	B 0.06 302	B 0.05 302	B 0.03 302	B 0.05 302
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	B 0.12 81	B 0.18 81	B 0.07 81	B 0.06 81	F 0 0	F 0 0	F 0 0	F 0 0

2.174 $6_Hyperbolic_functions\6.4Miscellaneous\6.4.1Hyperbolicfunctions$

Table 176: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	B 0.13 156	B 0.21 156	B 0.12 156	B 0.09 156	B 0.06 156	B 0.06 156	B 0.03 156	B 0.06 156
2	B 0.13 132	B 0.18 132	B 0.1 132	B 0.08 132	B 0.05 132	B 0.07 132	B 0.03 132	B 0.03 132
3	A 0.02 20	A 0.08 20	A 0. 20	A 0.01 20	A 0. 20	A 0. 20	A 0. 20	A 0. 20
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 176 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
5	C	0.56	923	C	0.72	923	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
6	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
7	A	0.02	79	A	0.09	79	A	0.01	79	A	0.	79	A	0.	79	A	0.	79	A	0.	79	A	0.	79
8	A	0.03	52	A	0.1	54	A	0.02	54	A	0.01	54	A	0.02	54	A	0.	54	A	0.	54	A	0.	54
9	A	0.03	71	A	0.1	73	A	0.02	73	A	0.01	73	A	0.	73	A	0.	73	A	0.	73	A	0.	73
10	A	0.03	27	A	0.1	27	A	0.02	27	A	0.01	27	A	0.02	27	A	0.	27	A	0.	27	A	0.	27
11	A	0.04	73	A	0.11	75	A	0.03	75	A	0.01	75	A	0.	75	A	0.	75	A	0.	75	A	0.02	75
12	A	0.04	62	A	0.11	74	A	0.02	74	A	0.01	74	A	0.	74	A	0.	74	A	0.	74	A	0.	74
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	A	0.03	32	A	0.1	32	A	0.02	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.02	32
17	A	0.02	17	A	0.09	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
18	A	0.03	90	A	0.1	73	A	0.02	73	A	0.01	73	A	0.01	73	A	0.	73	A	0.	73	A	0.	73
19	A	0.02	36	A	0.09	31	A	0.01	31	A	0.	31	A	0.02	31	A	0.	31	A	0.	31	A	0.	31
20	B	0.1	72	B	0.1	78	B	0.02	78	B	0.	78	B	0.	78	B	0.	78	B	0.	78	B	0.	78
21	A	0.03	32	A	0.1	32	A	0.02	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
22	A	0.04	62	A	0.1	48	A	0.02	70	A	0.01	48	A	0.	48	A	0.	48	A	0.	48	A	0.02	48
23	A	0.03	67	A	0.1	67	A	0.02	67	A	0.01	67	A	0.	67	A	0.	67	A	0.	67	A	0.	67
24	A	0.04	81	A	0.11	67	A	0.02	84	A	0.01	67	A	0.	67	A	0.	67	A	0.	67	A	0.	67
25	A	0.02	14	A	0.09	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.01	14	A	0.	14
26	B	0.02	32	B	0.09	32	B	0.02	32	B	0.	32	B	0.	32	B	0.	32	B	0.	32	B	0.	32
27	A	0.02	46	A	0.09	41	A	0.02	41	A	0.	41	A	0.	41	A	0.	41	A	0.	41	A	0.02	41
28	A	0.05	83	A	0.12	83	A	0.03	83	A	0.02	89	A	0.01	89	A	0.01	89	A	0.01	89	A	0.02	89
29	A	0.03	57	A	0.1	57	A	0.02	57	A	0.01	57	A	0.01	57	A	0.	57	A	0.	57	A	0.02	57
30	A	0.03	84	A	0.1	84	A	0.02	84	A	0.01	84	A	0.01	84	A	0.01	84	A	0.	84	A	0.02	84
31	A	0.02	83	A	0.09	83	A	0.01	83	A	0.01	89	A	0.02	89	A	0.	89	A	0.	89	A	0.02	89
32	A	0.06	133	A	0.13	133	A	0.04	133	A	0.02	133	A	0.02	133	A	0.	133	A	0.01	133	A	0.02	133

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Table 176 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
33	A	0.03	90	A	0.1	90	A	0.02	90	A	0.01	90	A	0.01	90	A	0.	90	A	0.	90	A	0.	90
34	A	0.03	127	A	0.1	127	A	0.02	127	A	0.01	127	A	0.01	127	A	0.01	127	A	0.	127	A	0.	127
35	A	0.03	184	A	0.1	184	A	0.02	184	A	0.01	190	A	0.01	190	A	0.01	190	A	0.	190	A	0.02	190
36	C	0.1	181	C	0.17	181	C	0.08	181	C	0.08	181	C	0.08	181	C	0.08	181	C	0.06	181	C	0.09	181
37	C	0.1	167	C	0.16	167	C	0.07	167	C	0.07	167	C	0.08	167	C	0.07	167	C	0.06	167	C	0.08	167
38	B	0.07	155	B	0.14	155	B	0.05	155	B	0.05	155	B	0.05	155	B	0.04	155	B	0.03	155	B	0.05	155
39	A	0.05	56	A	0.13	56	A	0.04	56	A	0.03	56	A	0.03	56	A	0.02	56	A	0.02	56	A	0.03	56
40	B	0.06	170	B	0.14	170	B	0.06	170	B	0.06	170	B	0.04	170	B	0.05	170	B	0.03	171	B	0.05	170
41	A	0.02	28	A	0.09	28	A	0.01	28	A	0.01	28	A	0.02	28	A	0.	28	A	0.	28	A	0.02	28
42	B	0.13	143	B	0.21	143	B	0.13	143	B	0.12	143	B	0.08	143	B	0.1	143	B	0.05	143	B	0.08	143
43	A	0.03	4	A	0.09	4	A	0.02	4	A	0.01	4	A	0.	4	A	0.	4	A	0.	4	A	0.02	4
44	A	0.04	14	A	0.1	14	A	0.03	14	A	0.02	14	A	0.02	14	A	0.	14	A	0.	14	A	0.	14
45	A	0.03	17	A	0.1	17	A	0.02	17	B	0.07	49	B	0.05	49	B	0.05	49	B	0.04	49	B	0.05	49
46	A	0.1	66	A	0.16	66	A	0.08	66	C	0.06	42	C	0.05	42	C	0.05	42	C	0.03	42	C	0.06	42
47	B	0.01	114	B	0.08	114	B	0.	114	B	0.	114	B	0.	114	B	0.	114	B	0.	114	B	0.	114
48	A	0.01	53	A	0.08	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53	A	0.	53
49	A	0.06	90	A	0.13	90	A	0.04	90	A	0.04	90	A	0.05	90	A	0.05	90	A	0.03	90	A	0.05	90
50	A	0.07	47	A	0.13	47	A	0.05	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.02	47	A	0.03	47
51	A	0.13	169	A	0.18	169	A	0.09	169	A	0.07	169	A	0.06	169	A	0.05	169	A	0.04	169	A	0.06	169
52	B	0.02	414	B	0.09	414	B	0.01	414	B	0.01	414	B	0.01	414	B	0.	414	B	0.	414	B	0.	414
53	A	0.11	110	A	0.18	110	A	0.09	110	A	0.07	110	A	0.05	110	A	0.05	110	A	0.04	110	A	0.06	110
54	A	0.02	7	A	0.08	7	A	0.01	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7	A	0.	7
55	A	0.02	24	A	0.08	24	A	0.01	24	A	0.01	24	A	0.01	24	A	0.02	24	A	0.	24	A	0.	24
56	B	0.02	334	B	0.08	334	B	0.01	334	B	0.	334	B	0.02	334	B	0.02	334	B	0.	334	B	0.	334
57	B	0.02	384	B	0.08	384	B	0.01	384	B	0.01	384	B	0.	384	B	0.02	384	B	0.	384	B	0.	384
58	B	0.02	232	B	0.09	232	B	0.01	232	B	0.	232	B	0.01	232	B	0.	232	B	0.	232	B	0.	232
59	B	0.02	114	B	0.09	114	B	0.01	114	B	0.	114	B	0.	114	B	0.	114	B	0.	114	B	0.	114
60	B	0.02	306	B	0.09	310	B	0.01	310	B	0.01	310	B	0.02	310	B	0.	310	B	0.	310	B	0.	310

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
61	A	0.1	50	A	0.17	50	A	0.07	50	A	0.04	50	A	0.03	50	A	0.03	50	A	0.02	50	A	0.05	50
62	B	0.02	542	B	0.09	542	B	0.01	542	B	0.01	542	B	0.	542	B	0.	542	B	0.	542	B	0.	542
63	A	0.15	158	A	0.25	158	A	0.13	158	A	0.06	158	A	0.05	158	A	0.05	158	A	0.04	158	A	0.06	158
64	A	0.13	110	A	0.2	110	A	0.1	110	A	0.05	110	A	0.05	110	A	0.05	110	A	0.04	110	A	0.05	110
65	A	0.04	94	A	0.18	94	A	0.02	94	A	0.02	94	A	0.02	94	A	0.02	94	A	0.02	94	A	0.02	94
66	C	0.04	154	C	0.11	154	C	0.03	154	C	0.03	154	C	0.03	154	C	0.02	154	C	0.02	154	C	0.03	154
67	A	0.01	12	A	0.08	12	A	0.01	12	B	0.01	31	B	0.	31	B	0.	31	B	0.	31	B	0.	31
68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	A	0.03	49	A	0.1	32	A	0.02	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32
72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	A	0.11	110	A	0.24	110	A	0.07	110	A	0.04	110	A	0.03	110	A	0.03	110	A	0.03	110	A	0.03	110
74	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
79	A	0.09	196	A	0.15	196	A	0.07	196	A	0.04	196	A	0.03	196	A	0.03	196	A	0.02	196	A	0.03	196
80	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	A	0.12	222	A	0.26	222	A	0.08	222	A	0.05	222	A	0.04	222	A	0.03	222	A	0.03	222	A	0.05	222
82	A	0.09	184	A	0.16	184	A	0.1	184	A	0.05	184	A	0.04	184	A	0.04	184	A	0.03	184	A	0.05	184
83	B	0.04	134	B	0.12	134	B	0.03	134	B	0.03	134	B	0.02	134	B	0.02	134	B	0.01	134	B	0.02	134
84	B	0.04	54	B	0.11	54	B	0.03	54	B	0.03	54	B	0.03	54	B	0.02	54	B	0.02	54	B	0.03	54
85	A	0.11	185	A	0.17	185	A	0.08	185	A	0.05	185	A	0.03	185	A	0.03	185	A	0.03	185	A	0.05	185
86	A	0.02	32	A	0.1	32	A	0.01	32	A	0.01	32	A	0.	32	A	0.	32	A	0.	32	A	0.	32
87	B	0.09	156	B	0.16	156	B	0.1	156	B	0.05	156	B	0.03	156	B	0.03	156	B	0.02	156	B	0.03	156
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
89	A	0.06	241	A	0.13	241	A	0.07	241	A	0.04	241	A	0.03	241	A	0.03	241	A	0.02	241	A	0.03	241
90	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
91	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
92	A	0.03	32	A	0.09	40	A	0.02	40	A	0.01	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40
93	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
94	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
95	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
96	A	0.07	417	A	0.15	417	A	0.08	417	A	0.06	417	A	0.04	417	A	0.04	417	A	0.04	417	A	0.05	417
97	B	0.06	170	B	0.13	170	B	0.05	170	B	0.04	170	B	0.03	170	B	0.04	170	B	0.02	170	B	0.03	170
98	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
99	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
100	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
101	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
102	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
103	B	0.17	42	B	0.18	42	B	0.09	42	B	0.07	42	F	0	0	F	0	0	F	0	0	F	0	0
104	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
105	B	0.04	127	B	0.11	127	B	0.03	127	B	0.03	127	B	0.02	127	B	0.02	127	B	0.01	127	B	0.02	127
106	B	0.22	58	B	0.28	58	B	0.24	58	B	0.16	58	B	0.1	58	B	0.08	58	B	0.08	58	B	0.11	58
107	A	0.07	39	A	0.13	39	A	0.03	39	A	0.01	39	A	0.	39	A	0.	39	A	0.	39	A	0.	39
108	B	0.34	1028	B	0.37	1028	B	0.17	1028	B	0.19	1028	B	0.15	1028	B	0.1	407	B	0.08	407	B	0.11	407
109	B	1.73	843231	C	1.51	76658	C	1.44	76592	C	1.25	76592	C	1.37	76592	F	0	0	F	0	0	F	0	0
110	A	0.01	26	A	0.08	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26
111	A	0.01	12	A	0.08	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
112	B	0.13	119	B	0.19	367	B	0.08	367	B	0.04	367	B	0.03	367	B	0.02	367	B	0.01	367	B	0.02	367
113	B	0.22	241	B	0.22	1192	B	0.1	1192	B	0.04	1192	B	0.04	1192	B	0.03	1192	B	0.02	1192	B	0.	1192
114	B	0.26	721	B	0.32	4997	B	0.14	4997	B	0.07	4997	B	0.06	4997	B	0.06	4997	B	0.03	4997	B	0.05	4997
115	B	0.09	33	B	0.15	33	B	0.06	33	B	0.04	33	B	0.03	33	B	0.02	33	B	0.01	33	B	0.02	35
116	A	0.09	29	A	0.17	29	A	0.08	29	A	0.04	29	A	0.03	29	A	0.03	29	A	0.01	29	A	0.02	31

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
117	B	0.09	89	B	0.15	85	B	0.06	85	B	0.01	85	B	0.	85	B	0.	85	B	0.	85	B	0.	85
118	A	0.09	29	A	0.18	29	A	0.08	29	A	0.04	29	A	0.03	29	A	0.03	29	A	0.01	29	A	0.02	29
119	A	0.2	41	A	0.22	41	A	0.12	41	A	0.04	41	A	0.03	41	A	0.02	41	A	0.01	41	A	0.03	41
120	A	0.04	79	A	0.11	71	A	0.03	71	A	0.01	71	A	0.01	71	A	0.01	71	A	0.	71	A	0.	71
121	A	0.02	36	A	0.09	40	A	0.01	40	A	0.01	40	A	0.	40	A	0.	40	A	0.	40	A	0.02	40
122	B	0.12	507	B	0.18	1206	B	0.09	1206	B	0.07	1206	B	0.03	1206	B	0.03	1206	B	0.02	1206	B	0.02	1206
123	B	0.04	75	B	0.11	66	B	0.03	66	B	0.01	66	B	0.	66	B	0.	66	B	0.	66	B	0.	66
124	A	0.06	24	A	0.13	24	A	0.04	24	A	0.02	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
125	B	0.04	41	B	0.1	36	B	0.03	36	B	0.01	36	B	0.01	36	B	0.	36	B	0.	36	B	0.02	36
126	B	0.06	23	B	0.13	23	B	0.05	23	B	0.03	23	B	0.02	23	B	0.02	23	B	0.01	23	B	0.02	23
127	A	0.03	29	A	0.1	27	A	0.02	27	A	0.02	27	A	0.	27	A	0.	27	A	0.	27	A	0.02	27
128	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
129	A	0.05	17	A	0.12	17	A	0.04	17	A	0.02	17	A	0.	17	A	0.	17	A	0.	17	A	0.02	17
130	A	0.1	99	A	0.17	99	A	0.07	99	A	0.03	99	A	0.01	99	A	0.01	99	A	0.01	99	A	0.02	99
131	B	0.12	146	B	0.18	412	B	0.09	412	B	0.05	412	B	0.03	412	B	0.03	412	B	0.02	412	B	0.03	412
132	A	0.12	164	A	0.19	257	A	0.09	257	A	0.05	257	A	0.03	257	A	0.03	257	A	0.02	257	A	0.02	257
133	B	0.12	149	B	0.18	421	B	0.07	421	B	0.04	421	B	0.03	421	B	0.02	421	B	0.02	421	B	0.03	421
134	A	0.12	167	B	0.19	318	B	0.08	318	B	0.04	318	B	0.03	318	B	0.03	318	B	0.01	318	B	0.03	318
135	B	0.14	55	B	0.2	750	B	0.07	750	B	0.03	750	B	0.02	750	B	0.02	750	B	0.01	750	B	0.02	750
136	A	0.16	398	B	0.22	674	B	0.11	674	B	0.07	674	B	0.05	674	B	0.05	674	B	0.03	674	B	0.03	674
137	A	0.17	214	B	0.22	1667	B	0.09	1667	B	0.03	1667	B	0.02	1667	B	0.02	1667	B	0.02	1667	B	0.03	1667
138	A	0.06	13	A	0.12	13	A	0.03	13	A	0.02	13	B	0.02	41	B	0.03	41	B	0.02	41	B	0.02	41
139	A	0.06	130	A	0.13	136	A	0.04	136	A	0.02	136	A	0.	136	A	0.	136	A	0.	136	A	0.	136
140	B	0.13	191	B	0.18	562	B	0.07	562	B	0.02	562	B	0.02	562	B	0.01	562	B	0.01	562	B	0.02	562
141	A	0.05	55	A	0.11	55	A	0.03	55	A	0.01	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55
142	A	0.12	58	A	0.18	58	A	0.08	58	A	0.02	58	A	0.01	58	A	0.01	58	A	0.	58	A	0.	58
143	A	0.16	138	A	0.22	138	A	0.1	138	A	0.02	138	A	0.01	138	A	0.02	138	A	0.01	138	A	0.	138
144	A	0.07	202	A	0.14	208	A	0.05	208	A	0.02	208	A	0.01	208	A	0.01	208	A	0.01	208	A	0.02	208

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
145	A	0.01	23	A	0.08	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
146	B	0.15	217	C	0.59	2598	C	0.44	3382	C	0.46	3382	C	0.41	3382	C	0.46	3410	C	0.16	3382	C	0.25	3410
147	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
148	C	1.01	12966	C	1.07	12966	C	0.79	12966	C	0.82	12966	C	0.88	12966	F	0	0	F	0	0	F	0	0
149	C	0.55	6060	C	0.6	6061	C	0.34	6061	C	0.37	6060	C	0.36	6061	F	0	0	F	0	0	F	0	0
150	A	0.07	53	A	0.14	53	A	0.07	53	A	0.02	53	A	0.01	53	A	0.01	53	A	0.01	53	A	0.02	53
151	B	0.1	873	B	0.17	873	B	0.06	873	B	0.04	873	B	0.02	873	B	0.02	873	B	0.01	873	B	0.02	873
152	B	0.1	1009	B	0.16	1009	B	0.06	1009	B	0.04	1009	B	0.03	1009	B	0.02	1009	B	0.01	1009	B	0.02	1009
153	B	0.22	1425	B	0.27	12656	B	0.13	12656	B	0.05	12656	B	0.04	12656	B	0.04	12656	B	0.03	12656	B	0.05	12656
154	C	0.02	8	C	0.09	8	C	0.02	8	C	0.02	8	C	0.	8	C	0.	8	C	0.	8	C	0.	8
155	C	0.03	8	C	0.1	8	C	0.02	8	C	0.02	8	C	0.	8	C	0.	8	C	0.	8	C	0.	8
156	B	0.09	108	B	0.15	108	B	0.07	108	B	0.04	108	B	0.03	108	B	0.02	108	B	0.01	108	B	0.	108
157	C	0.03	8	C	0.1	8	C	0.02	8	C	0.01	8	C	0.	8	C	0.	8	C	0.	8	C	0.	8
158	C	0.04	8	C	0.11	8	C	0.02	8	C	0.02	8	C	0.	8	C	0.	8	C	0.	8	C	0.	8
159	C	0.11	108	C	0.16	108	C	0.07	111	C	0.04	111	C	0.02	111	C	0.02	111	C	0.01	111	C	0.02	111
160	C	0.1	79	C	0.14	79	C	0.05	83	C	0.02	83	C	0.01	83	C	0.01	83	C	0.01	83	C	0.02	83
161	B	0.08	253	B	0.22	253	B	0.06	253	B	0.05	253	F	0	0	F	0	0	F	0	0	F	0	0
162	C	0.08	150	C	0.14	150	C	0.11	150	C	0.05	150	F	0	0	F	0	0	F	0	0	F	0	0
163	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
164	A	0.01	19	A	0.08	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.	19	A	0.02	19
165	C	0.45	65022	C	0.48	65022	C	0.26	65022	C	0.26	65022	C	0.24	65022	C	0.27	65022	C	0.21	65022	C	0.26	65022
166	C	0.26	11987	C	0.29	11987	C	0.1	11987	C	0.12	11987	C	0.12	11987	C	0.12	11987	C	0.11	11987	C	0.12	11987
167	A	0.07	67	A	0.13	67	A	0.07	67	A	0.05	67	A	0.04	67	A	0.04	67	A	0.03	67	A	0.03	67
168	A	0.03	112	A	0.1	112	A	0.02	112	A	0.01	112	A	0.01	112	A	0.	112	A	0.	112	A	0.	112
169	A	0.02	112	A	0.09	112	A	0.01	112	A	0.01	112	A	0.01	112	A	0.01	112	A	0.	112	A	0.02	112
170	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
171	A	0.02	90	A	0.09	90	A	0.01	90	A	0.01	90	A	0.	90	A	0.	90	A	0.	90	A	0.	90
172	A	0.02	71	A	0.09	71	A	0.01	71	A	0.01	71	A	0.	71	A	0.	71	A	0.	71	A	0.02	71

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
173	A	0.03	30	A	0.1	30	A	0.02	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.	30	A	0.	30
174	A	0.02	107	A	0.1	107	A	0.02	107	A	0.01	107	A	0.	107	A	0.	107	A	0.	107	A	0.	107
175	A	0.03	47	A	0.1	47	A	0.02	47	A	0.01	47	A	0.	47	A	0.	47	A	0.	47	A	0.	47
176	A	0.03	33	A	0.09	33	A	0.01	33	A	0.01	33	A	0.01	33	A	0.	33	A	0.01	33	A	0.02	33
177	A	0.07	38	A	0.21	38	A	0.04	38	A	0.04	38	A	0.03	38	A	0.02	38	A	0.02	38	A	0.03	38
178	A	0.03	69	A	0.1	69	A	0.02	69	A	0.01	69	A	0.01	69	A	0.01	69	A	0.01	69	A	0.02	69
179	A	0.03	108	A	0.1	108	A	0.02	108	A	0.02	108	A	0.01	108	A	0.02	108	A	0.01	108	A	0.	108
180	A	0.03	89	A	0.1	89	A	0.02	89	A	0.02	89	A	0.01	89	A	0.01	89	A	0.01	89	A	0.02	89
181	C	0.12	50	C	0.18	50	C	0.08	50	C	0.07	50	C	0.05	50	C	0.05	50	C	0.04	50	C	0.06	50
182	C	0.1	48	C	0.16	48	C	0.08	48	C	0.07	48	C	0.05	48	C	0.06	48	C	0.04	48	C	0.05	48
183	C	0.11	54	C	0.18	54	C	0.09	54	C	0.07	54	C	0.05	54	C	0.05	54	C	0.04	54	C	0.03	54
184	A	0.02	102	A	0.09	102	A	0.01	102	A	0.01	102	A	0.01	102	A	0.	102	A	0.01	102	A	0.	102
185	A	0.03	78	A	0.1	78	A	0.02	78	A	0.01	78	A	0.01	78	A	0.02	78	A	0.	78	A	0.02	78
186	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
187	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
188	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
189	A	0.04	202	A	0.11	202	A	0.03	202	A	0.02	202	A	0.01	202	A	0.02	202	A	0.01	202	A	0.02	202
190	A	0.05	278	A	0.12	278	A	0.04	278	A	0.03	278	A	0.01	278	A	0.02	278	A	0.01	278	A	0.02	278
191	A	0.04	202	A	0.11	202	A	0.02	202	A	0.02	202	A	0.01	202	A	0.01	202	A	0.01	202	A	0.	202
192	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
193	A	0.01	17	A	0.08	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
194	A	0.16	23	A	0.22	23	A	0.04	23	A	0.03	23	A	0.	23	A	0.02	23	A	0.01	23	A	0.02	23
195	A	0.02	23	A	0.09	23	A	0.04	23	A	0.03	23	A	0.	23	A	0.01	23	A	0.01	23	A	0.02	23
196	A	0.02	17	A	0.08	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
197	A	0.12	23	A	0.18	23	A	0.04	23	A	0.03	23	A	0.02	23	A	0.	23	A	0.01	23	A	0.02	23
198	A	0.01	12	A	0.08	12	A	0.	12	A	0.	12	B	0.	38	B	0.	38	B	0.	38	B	0.	38
199	B	0.06	34	B	0.13	34	B	0.05	34	B	0.04	34	B	0.03	34	B	0.03	34	B	0.01	34	B	0.02	34
200	C	0.1	34	C	0.15	34	C	0.05	34	C	0.02	34	C	0.02	34	C	0.02	34	C	0.01	34	C	0.02	34

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Table 176 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
201	B	0.11	63	B	0.18	63	B	0.09	63	B	0.06	63	B	0.06	63	B	0.05	63	B	0.03	63	B	0.05	62
202	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
203	A	0.03	20	A	0.09	20	A	0.01	20	A	0.01	20	A	0.02	20	A	0.	20	A	0.	20	A	0.	20
204	A	0.12	61	A	0.19	61	A	0.1	61	A	0.05	61	A	0.02	61	A	0.03	61	A	0.02	61	A	0.03	61
205	A	0.16	59	A	0.24	59	A	0.06	59	A	0.05	59	A	0.03	59	A	0.03	59	A	0.02	59	A	0.03	59
206	A	0.01	59	A	0.08	59	A	0.	59	A	0.	59	A	0.	59	A	0.	59	A	0.	59	A	0.02	59
207	A	0.1	22	A	0.14	22	A	0.04	22	A	0.05	22	F	0	0	F	0	0	F	0	0	F	0	0
208	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
209	A	0.02	17	A	0.08	17	A	0.01	17	A	0.01	17	A	0.	17	A	0.	17	A	0.	17	A	0.	17
210	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
211	C	0.25	120	C	0.19	120	C	0.12	120	C	0.06	120	C	0.	120	C	0.03	120	C	0.02	120	C	0.	120

2.175 $7_Inverse_hyperbolic_functions\7.1aInversehyperbolic\ sine\7.1.2(dx)^m(a+\operatorname{arcsinh}(cx))^n$

Table 177: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	58	A	0.18	58	A	0.	58	A	0.	58	A	0.02	58	A	0.02	58	A	0.	58	A	0.	58
2	A	0.08	94	A	0.28	94	A	0.04	94	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
3	A	0.01	37	A	0.08	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
4	A	0.06	118	A	0.12	118	A	0.03	118	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	A	0.05	36	A	0.11	36	A	0.03	36	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
6	A	0.12	67	A	0.18	67	A	0.09	67	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
7	A	0.16	99	A	0.22	99	A	0.13	99	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
8	A	0.08	162	A	0.14	162	A	0.06	162	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	A	0.16	228	A	0.22	228	A	0.16	228	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	A	0.05	65	A	0.11	65	A	0.03	65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 177 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
11	A 0.12 208	A 0.18 208	A 0.08 208	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.04 13	A 0.11 13	A 0.02 13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0.06 82	A 0.12 82	A 0.03 82	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	A 0.04 43	A 0.1 43	A 0.02 43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	A 0.05 60	A 0.12 60	A 0.03 60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	A 0.08 24	A 0.14 24	A 0.06 24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	A 0.16 119	A 0.23 119	A 0.13 119	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	A 0.16 147	A 0.23 147	A 0.14 147	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.176 $7_Inverse_hyperbolic_functions\7.1aInversehyperbolicsine\7.1.4a(fx)^m(d+c^2dx^2)^p(a+barcsinh(cx))^n$

Table 178: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 113	A 0.09 113	A 0.01 113	A 0.01 113	A 0.02 113	A 0.01 113	A 0.01 113	A 0.02 113
2	A 0.02 105	A 0.09 105	A 0.01 105	A 0.01 105	A 0.02 105	A 0. 105	A 0.01 105	A 0.02 105
3	A 0.01 76	A 0.08 76	A 0.01 76	A 0.01 76	A 0.02 76	A 0. 76	A 0.01 76	A 0. 76
4	A 0.18 175	A 0.39 175	A 0.14 175	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	A 0.02 156	A 0.1 156	A 0.01 156	A 0.01 156	A 0.01 156	A 0.02 156	A 0.01 156	A 0.02 156
6	A 0.26 313	A 0.47 313	A 0.2 313	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0.03 155	A 0.1 155	A 0.02 155	A 0.02 155	A 0.02 155	A 0.02 155	A 0.01 155	A 0.02 155
8	A 0.13 161	A 0.34 161	A 0.09 161	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	C 0.13 171	C 0.17 171	C 0.1 171	C 0.1 171	C 0.06 171	C 0.08 171	C 0.07 171	C 0.08 171
10	A 0.14 266	A 0.21 266	A 0.13 266	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	C 0.03 261	C 0.1 261	C 0.02 261	C 0.02 261	C 0.02 261	C 0.02 261	C 0.01 261	C 0.02 261
12	C 0.02 267	C 0.1 267	C 0.03 267	C 0.02 267	C 0. 267	C 0.02 267	C 0.01 267	C 0.02 267
13	C 0.02 307	C 0.1 309	C 0.02 309	C 0.03 309	C 0.02 309	C 0.03 309	C 0.01 309	C 0.02 309
14	B 0.32 578	B 0.36 578	B 0.24 578	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	B 0.2 263	B 0.4 263	B 0.15 263	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	B 0.26 946	B 0.32 946	B 0.24 946	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	A 0.35 421	A 0.56 421	A 0.27 421	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	B 0.33 1316	B 0.53 1316	B 0.29 1316	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	B 0.3 625	B 0.35 625	B 0.24 625	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	B 0.35 347	B 0.56 347	B 0.3 347	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	A 0.2 234	A 0.24 234	A 0.16 234	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	C 0.31 389	C 0.36 389	C 0.24 389	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	B 0.26 1257	B 0.33 1257	B 0.24 1257	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	A 0.13 82	A 0.16 82	A 0.07 82	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	A 0.08 40	A 0.14 40	A 0.06 40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	A 0.07 260	A 0.13 260	A 0.04 260	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 178 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0.14 252	A 0.21 252	A 0.12 252	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	A 0.17 446	A 0.17 446	A 0.07 446	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	A 0.07 276	A 0.13 276	A 0.04 276	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	A 0.25 508	A 0.18 508	A 0.07 508	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	A 0.09 462	A 0.14 462	A 0.05 462	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	A 0.07 372	A 0.14 372	A 0.05 372	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	B 0.32 706	B 0.54 706	B 0.26 706	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	A 0.28 528	A 0.36 528	A 0.25 528	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	B 0.11 222	B 0.18 222	B 0.08 222	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	B 0.47 1436	B 0.55 1436	B 0.38 1436	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	B 0.29 1162	B 0.34 1162	B 0.22 1162	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	B 0.36 934	B 0.56 934	B 0.28 934	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	B 0.52 1131	B 0.56 1131	B 0.43 1131	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	B 0.54 1321	B 0.57 1321	B 0.46 1321	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	A 0.12 125	A 0.16 125	A 0.08 125	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	A 0.08 69	A 0.14 69	A 0.06 69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	A 0.08 64	A 0.14 64	A 0.06 64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	A 0.14 132	A 0.2 132	A 0.1 132	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	B 0.29 1227	B 0.35 1227	B 0.24 1227	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	B 0.38 530	B 0.58 530	B 0.32 530	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	B 0.4 526	B 0.44 526	B 0.35 526	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	B 0.53 901	B 0.56 901	B 0.42 901	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	B 0.51 2147	B 0.56 2147	B 0.48 2147	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	B 0.39 660	B 0.43 660	B 0.34 660	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	A 0.06 128	A 0.13 128	A 0.04 128	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 178 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	A 0.19 231	A 0.39 231	A 0.14 231	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	A 0.15 187	A 0.2 187	A 0.1 187	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	A 0.29 178	A 0.36 178	A 0.23 178	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	A 0.26 178	A 0.33 178	A 0.2 178	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	A 0.63 238	A 0.92 238	A 0.76 238	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
66	A 0.11 36	A 0.16 36	A 0.06 36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
67	A 0.07 10	A 0.13 10	A 0.05 10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
68	A 0.22 178	A 0.28 178	A 0.16 178	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
69	A 0.1 58	A 0.16 58	A 0.06 58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
71	B 0.26 248	B 0.33 248	B 0.23 248	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	B 0.27 192	B 0.32 192	B 0.2 192	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	B 0.61 958	B 0.71 958	B 0.56 958	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
76	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
77	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
78	B 0.67 1044	B 0.73 1044	B 0.71 1044	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
79	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
80	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
81	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
82	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
83	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 178 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
84	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
85	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
86	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
87	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
88	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
89	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
90	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
91	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
92	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
93	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
94	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.177 $7_Inverse_hyperbolic_functions\7.1aInversehyperbolicsine\7.1.4b(fx)^m(d+ex^2)^p(a+barcsinh(cx))^n$

Table 179: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 451	A 0.09 451	A 0.01 451	A 0.01 451	A 0. 451	A 0. 451	A 0. 451	A 0.02 451
2	B 0.17 1166	B 0.23 1166	B 0.14 1166	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	B 0.32 1036	B 0.41 1036	B 0.27 1036	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 179 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.178 7_Inverse_hyperbolic_functions\7.1aInversehyperbolicssine\7.1.5Inversehyperbolicssinefunctions

Table 180: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	A 0.02 189	A 0.09 189	A 0.01 189	A 0.01 189	A 0. 189	A 0. 189	A 0. 189	A 0. 189
4	C 0.12 282	C 0.35 282	C 0.08 282	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	B 0.05 516	B 0.12 516	B 0.03 516	B 0.02 516	B 0.02 516	B 0.02 516	B 0.03 516	B 0.03 516
6	A 0.16 272	A 0.23 272	A 0.12 272	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0.07 118	A 0.15 118	A 0.05 118	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	B 0.5 791	B 0.71 791	B 0.4 791	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	B 0.35 423	B 0.56 423	B 0.26 423	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.86 1954	A 1.04 1954	A 0.74 1954	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	B 0.37 486	B 0.59 486	B 0.32 486	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	A 0.01 74	A 0.09 74	A 0. 74	A 0.01 74	A 0.02 74	A 0. 74	A 0. 74	A 0.02 74
16	C 0.14 388	C 0.36 388	C 0.09 388	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	A 0.02 106	A 0.1 106	A 0.01 106	A 0.01 106	A 0.01 106	A 0.02 106	A 0.01 106	A 0. 106
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 180 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
20	A 0.07 49	A 0.14 49	A 0.05 49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	A 0.07 73	A 0.14 73	A 0.04 73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	A 0.02 159	A 0.09 159	A 0.01 159	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	A 0.15 310	A 0.22 310	A 0.15 310	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	A 0.09 360	A 0.16 360	A 0.06 360	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	B 0.12 736	B 0.34 736	B 0.07 736	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	B 0.13 820	B 0.2 820	B 0.1 820	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	B 0.13 723	B 0.2 723	B 0.09 723	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	A 0.23 194	A 0.31 194	A 0.19 194	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	A 0.06 66	A 0.16 66	A 0.05 66	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	B 0.17 342	B 0.24 342	B 0.13 342	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	A 0.1 190	A 0.18 190	A 0.08 190	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 180 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	C 0.05 238	C 0.13 238	C 0.02 238	C 0.02 238	C 0.02 238	C 0.02 238	C 0.02 238	C 0.02 238
52	C 0.04 176	C 0.12 176	C 0.02 176	C 0.02 176	C 0.02 176	C 0.02 176	C 0.02 176	C 0.03 176
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
56	A 0.09 63	A 0.15 63	A 0.06 63	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	A 0.08 14	A 0.14 14	A 0.05 14	F 0 0	F 0 0	A 0. 14	A 0. 14	A 0. 14
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	A 0.04 67	A 0.35 67	A 0.02 67	A 0.03 67	A 0.03 67	A 0.03 67	A 0.02 67	A 0.06 67
60	C 0.03 89	C 0.1 89	C 0.01 89	C 0.01 89	C 0. 89	C 0. 89	C 0.01 89	C 0.02 89
61	C 0.02 77	C 0.09 77	C 0.01 77	C 0.01 77	C 0.01 77	C 0.02 77	C 0.01 77	C 0. 77
62	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	A 0.01 47	A 0.08 47	A 0. 47	A 0. 47	A 0. 47	A 0.02 47	A 0. 47	A 0. 47
64	A 0.01 31	A 0.08 31	A 0. 31	A 0.01 31	A 0.02 31	A 0. 31	A 0. 31	A 0. 31
65	A 0.03 54	A 0.09 54	A 0.01 54	A 0.01 54	A 0. 54	A 0. 54	A 0.01 54	A 0.02 54
66	A 0.01 31	A 0.09 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
67	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
68	A 0.06 47	A 0.11 47	A 0.03 47	A 0.02 47	A 0.02 47	A 0.03 47	A 0.03 47	A 0.03 47
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
71	B 0.02 501	B 0.1 501	B 0.02 501	B 0.01 501	B 0.02 501	B 0.02 501	B 0.01 501	B 0.02 501
72	B 0.02 841	B 0.1 841	B 0.01 841	B 0.02 841	B 0.02 841	B 0.02 841	B 0.01 841	B 0. 841
73	A 0.05 4	A 0.11 4	A 0.04 4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.179 $\int \frac{1}{\sqrt{1-x^2}} \cos^{-1}(cx) dx$

Table 181: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.04 99	A 0.12 99	A 0.03 99	A 0.02 99	A 0.02 99	A 0.02 99	A 0.02 99	A 0.02 99
2	A 0.09 66	A 0.3 66	A 0.04 66	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	A 0.02 40	A 0.1 40	A 0.02 40	A 0.02 40	A 0.02 40	A 0.01 40	A 0.01 40	A 0.02 40
4	A 0.04 73	A 0.1 73	A 0.02 73	A 0.02 73	A 0.02 73	A 0.02 73	A 0.01 73	A 0.02 73
5	A 0.06 126	A 0.13 126	A 0.04 126	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	A 0.04 39	A 0.12 39	A 0.02 39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0.07 73	A 0.14 73	A 0.06 73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	A 0.16 109	A 0.24 109	A 0.13 109	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	A 0.05 71	A 0.12 71	A 0.03 71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.11 149	A 0.18 149	A 0.08 149	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0.04 13	A 0.13 13	A 0.02 13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	A 0.04 43	A 0.12 43	A 0.02 43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	A 0.21 139	A 0.28 139	A 0.17 139	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	A 0.15 122	A 0.24 122	A 0.13 122	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 181 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	A 0.16 153	A 0.24 153	A 0.14 153	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	A 0.03 62	A 0.09 62	A 0.02 62	A 0.02 62	A 0. 62	A 0.02 62	A 0.01 62	A 0. 62
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.180 $7_Inverse_hyperbolic_functions\7.1bInversehyperboliccosine\7.1.4a(fx)^m(d-c^2dx^2)^p(a+\bar{arccosh}(cx))^n$

Table 182: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.03 160	A 0.12 160	A 0.02 160	A 0.02 160	A 0.02 160	A 0.03 160	A 0.02 160	A 0.02 160
2	A 0.03 90	A 0.1 90	A 0.02 90	A 0.02 90	A 0.02 90	A 0.02 90	A 0.01 90	A 0.02 90
3	A 0.02 73	A 0.1 73	A 0.01 73	A 0.02 73	A 0.02 73	A 0.01 73	A 0.01 73	A 0.02 73
4	A 0.17 140	A 0.4 140	A 0.13 140	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	A 0.04 230	A 0.11 230	A 0.02 230	A 0.03 230	A 0.03 230	A 0.02 230	A 0.02 230	A 0.02 230
6	A 0.26 275	A 0.49 275	A 0.22 275	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0.04 223	A 0.11 223	A 0.03 223	A 0.02 223	A 0.03 223	A 0.03 223	A 0.02 223	A 0.02 223
8	A 0.13 244	A 0.36 244	A 0.09 244	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	C 0.28 338	C 0.32 326	C 0.18 70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	B 0.15 301	B 0.21 301	B 0.14 301	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	C 0.2 225	C 0.26 225	C 0.18 225	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	C 0.22 259	C 0.27 259	C 0.17 259	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 182 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
13	A 0.23 380	A 0.31 380	A 0.21 380	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	C 0.01 321	C 0.09 309	C 0.03 58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	B 0.22 239	B 0.47 239	B 0.18 239	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	B 0.3 1017	B 0.38 1017	B 0.31 1017	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	B 0.44 2534	B 0.51 2534	B 0.49 2534	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	B 0.56 4259	B 0.64 4259	B 0.61 4259	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	B 0.64 1846	B 0.7 1846	B 0.54 1846	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	B 0.52 1376	B 0.57 1376	B 0.44 1376	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	C 0.37 570	C 0.44 570	C 0.32 570	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	B 0.37 956	B 0.42 956	B 0.31 956	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	A 0.07 89	A 0.15 89	A 0.08 89	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	A 0.37 431	A 0.42 431	A 0.3 431	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	B 0.38 445	B 0.6 445	B 0.32 445	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	A 0.24 242	A 0.31 242	A 0.22 242	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	B 0.38 456	B 0.61 456	B 0.32 456	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	A 0.07 51	A 0.13 51	A 0.04 51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	C 0.32 301	C 0.39 301	C 0.28 301	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	A 0.08 140	A 0.14 140	A 0.05 140	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	B 0.62 1284	B 0.63 1284	B 0.49 1284	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	B 0.7 1952	B 0.7 1952	B 0.56 1952	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	B 0.61 1227	B 0.8 1227	B 0.52 1227	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	B 0.67 3431	B 0.85 3431	B 0.6 3431	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	B 0.06 149	B 0.14 149	B 0.05 149	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 182 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
41	A 0.37 1099	A 0.41 1099	A 0.29 1099	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	B 0.64 1211	B 0.66 1211	B 0.53 1211	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	B 0.52 835	B 0.54 835	B 0.41 835	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	B 0.53 3445	B 0.58 3445	B 0.47 3445	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	A 0.28 343	A 0.33 343	A 0.22 343	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	A 0.26 208	A 0.34 208	A 0.22 208	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	B 0.54 1319	B 0.58 1319	B 0.46 1319	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	A 0.27 269	A 0.32 269	A 0.22 269	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
56	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	A 0.19 361	A 0.25 361	A 0.15 363	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	A 0.32 591	A 0.39 591	A 0.27 597	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	A 0.32 725	A 0.36 725	A 0.25 731	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	A 0.27 725	A 0.33 725	A 0.22 731	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
64	B 0.3 249	B 0.36 249	B 0.25 249	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	A 0.12 48	A 0.19 48	A 0.1 48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
66	A 0.32 525	A 0.39 525	A 0.28 523	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
67	A 0.17 173	A 0.24 173	A 0.15 171	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
68	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

Continued on next page

Table 182 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
71	A 0.07 87	A 0.14 85	A 0.04 87	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	B 0.5 1499	B 0.58 1499	B 0.44 1499	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
76	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
77	B 0.38 634	B 0.44 634	B 0.38 632	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
78	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
79	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
80	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
81	A 0.06 51	A 0.13 51	A 0.04 51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
82	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
83	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
84	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
85	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
86	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
87	A 0.07 41	A 0.14 41	A 0.05 41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
88	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
89	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
90	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
91	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.181 $7_Inverse_hyperbolic_functions\7.1bInversehyperboliccosine\7.1.4b(fx)^{m(d+ex^2)^p(a+\text{barccosh}(cx))^n}$

Table 183: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.03	133	A	0.11	133	A	0.02	133	A	0.02	133	A	0.02	133	A	0.03	133	A	0.02	133	A	0.03	133
2	A	0.03	250	A	0.11	250	A	0.02	250	A	0.02	250	A	0.02	250	A	0.02	250	A	0.02	250	A	0.03	250
3	A	0.19	126	A	0.43	126	A	0.15	126	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
4	A	0.03	157	A	0.11	157	A	0.02	157	A	0.02	157	A	0.02	157	A	0.02	157	A	0.01	157	A	0.02	157
5	A	0.2	225	A	0.44	225	A	0.16	225	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
6	A	0.04	177	A	0.12	177	A	0.02	177	A	0.02	177	A	0.03	177	A	0.03	177	A	0.02	177	A	0.03	177
7	A	0.03	196	A	0.12	196	A	0.03	196	A	0.02	196	A	0.03	196	A	0.02	196	A	0.02	196	A	0.02	196
8	A	0.04	282	A	0.12	282	A	0.04	282	A	0.03	282	A	0.03	282	A	0.03	282	A	0.02	282	A	0.02	282
9	C	0.36	513	C	0.58	513	C	0.32	516	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	C	2.54	1689	C	2.52	1689	C	2.06	1690	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	C	1.2	1695	C	1.08	1695	C	1.09	1696	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	A	0.16	632	A	0.21	632	A	0.12	632	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	B	0.34	1102	B	0.41	1102	B	0.3	1102	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	A	0.08	125	A	0.15	125	A	0.06	125	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.182 7_Inverse_hyperbolic_functions\7.1bInversehyperboliccosine\7.1.5Inversehyperboliccosinefunctions

Table 184: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.03	233	B	0.11	233	B	0.02	233	B	0.02	233	B	0.02	233	B	0.02	233	B	0.02	233	B	0.	233
2	A	0.03	107	A	0.11	107	A	0.02	107	A	0.02	107	A	0.02	107	A	0.02	107	A	0.01	107	A	0.02	107
3	A	0.11	329	A	0.18	329	A	0.09	329	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
4	A	0.08	207	A	0.16	207	A	0.07	207	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
6	A	0.05	145	A	0.13	145	A	0.04	145	A	0.03	145	A	0.03	145	A	0.03	145	A	0.03	145	A	0.03	145
7	B	0.11	791	B	0.17	791	B	0.08	791	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
8	A	0.11	120	A	0.19	120	A	0.08	120	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	A	0.24	649	A	0.33	649	A	0.22	649	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	C	2.19	1632	C	1.92	1632	C	2.04	1633	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	B	0.39	461	B	0.6	461	B	0.3	461	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	A	0.5	656	A	0.7	656	A	0.42	656	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	A	0.94	2116	A	1.13	2116	A	0.85	2116	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	A	0.6	877	A	0.8	877	A	0.5	877	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	B	0.37	559	B	0.61	559	B	0.34	559	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	B	0.03	308	B	0.11	308	B	0.02	308	B	0.02	308	B	0.03	308	B	0.02	308	B	0.02	308	B	0.02	308
19	B	0.03	207	B	0.11	207	B	0.02	207	B	0.02	207	B	0.02	207	B	0.03	207	B	0.01	207	B	0.02	207
20	A	0.03	120	A	0.11	120	A	0.02	120	A	0.02	120	A	0.01	120	A	0.02	120	A	0.01	120	A	0.02	120
21	A	0.06	132	A	0.12	132	A	0.04	132	A	0.03	132	A	0.03	132	A	0.03	132	A	0.03	132	A	0.03	132
22	A	0.02	111	A	0.1	111	A	0.01	111	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	A	0.02	120	A	0.1	120	A	0.01	120	A	0.01	120	A	0.02	120	A	0.02	120	A	0.	120	A	0.02	120
24	A	0.08	263	A	0.32	263	A	0.04	263	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	B	0.02	194	B	0.1	194	B	0.01	194	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	A	0.12	602	A	0.2	602	A	0.09	602	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	B	0.09	605	B	0.17	605	B	0.06	605	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 184 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	B 0.15 632	B 0.22 632	B 0.11 632	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	B 0.16 374	B 0.24 374	B 0.13 374	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	B 0.35 993	B 0.42 993	B 0.3 993	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	A 0.12 254	A 0.2 254	A 0.1 254	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	C 0.08 269	C 0.16 269	C 0.06 269	C 0.05 269	C 0.05 269	C 0.05 269	C 0.04 269	C 0.05 269
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	A 0.03 38	A 0.1 38	A 0.02 38	A 0.01 38	A 0.02 38	A 0.02 38	A 0.01 38	A 0.02 38
50	A 0.02 91	A 0.1 91	A 0.01 91	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	A 0.66 491	A 3.04 491	A 0.36 491	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	B 0.04 603	B 0.11 603	B 0.02 603	B 0.02 603	B 0.02 603	B 0.02 603	B 0.02 603	B 0.02 603

Continued on next page

Table 184 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
56	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
57	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
58	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
59	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.183 7_Inverse_hyperbolic_functions\7.2aInversehyperbolictangent\7.2.1Inversehyperbolictangentfunctions

Table 185: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.01	55	A	0.09	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55	A	0.	55
2	A	0.01	39	A	0.09	39	A	0.	39	A	0.	39	A	0.02	39	A	0.	39	A	0.	39	A	0.	39
3	C	0.04	196	C	0.13	196	C	0.03	173	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
4	B	0.03	185	B	0.12	185	B	0.02	162	B	0.06	173	B	0.06	173	B	0.06	173	B	0.05	173	B	0.09	173
5	C	0.04	192	C	0.13	192	C	0.04	166	C	0.03	200	C	0.03	200	C	0.03	200	C	0.02	200	C	0.03	200
6	C	0.03	166	C	0.11	166	C	0.02	140	C	0.03	155	C	0.03	155	C	0.03	155	C	0.02	155	C	0.03	155
7	C	0.03	134	C	0.11	134	C	0.02	108	C	0.03	118	C	0.02	118	C	0.03	118	C	0.02	118	C	0.03	118
8	C	0.04	226	C	0.12	226	C	0.05	200	C	0.07	202	C	0.06	202	C	0.06	202	C	0.06	202	C	0.09	202
9	C	0.26	443	C	0.49	443	C	0.27	443	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	C	0.49	842	C	0.76	842	C	0.46	842	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	C	0.28	1226	C	0.54	1226	C	0.25	1226	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	A	0.02	59	A	0.1	59	A	0.01	59	A	0.01	59	A	0.	59	A	0.	59	A	0.	59	A	0.02	59
15	C	0.03	69	C	0.11	69	C	0.01	69	C	0.02	83	C	0.02	83	C	0.03	83	C	0.02	83	C	0.03	83
16	C	0.03	225	C	0.12	225	C	0.02	202	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	C	0.03	205	C	0.12	205	C	0.02	182	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 185 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	A	0.02	87	A	0.1	87	A	0.01	87	A	0.01	87	A	0.	87	A	0.02	87	A	0.01	87	A	0.	87
20	A	0.02	79	A	0.1	79	A	0.01	79	A	0.01	79	A	0.02	79	A	0.01	79	A	0.	79	A	0.02	79
21	C	0.03	105	C	0.12	105	C	0.02	105	C	0.06	133	C	0.05	133	C	0.05	133	C	0.04	133	C	0.09	133
22	C	0.03	239	C	0.12	239	C	0.02	216	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	C	0.04	222	C	0.13	222	C	0.04	201	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	C	0.04	249	C	0.13	249	C	0.04	226	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	B	0.06	233	B	0.15	233	B	0.05	210	B	0.07	284	B	0.08	284	B	0.08	284	B	0.06	284	B	0.11	284
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	A	0.02	88	A	0.1	88	A	0.01	88	A	0.01	88	A	0.02	88	A	0.	88	A	0.01	88	A	0.	88
28	B	0.03	132	B	0.11	132	B	0.02	111	B	0.06	86	B	0.05	86	B	0.06	86	B	0.04	87	B	0.05	87
29	C	0.28	1197	C	0.57	1197	C	0.27	1197	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
30	C	0.43	4503	C	0.66	4503	C	0.4	4503	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
31	C	0.27	797	C	0.54	797	C	0.31	797	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	A	0.01	10	A	0.09	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.	10	A	0.02	10
33	A	0.01	12	A	0.09	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12	A	0.	12
34	C	0.33	1760	C	0.74	1760	C	0.31	1760	B	0.09	336	B	0.09	336	B	0.08	336	B	0.08	336	B	0.16	336
35	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
36	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
37	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
38	A	0.06	36	A	0.14	36	A	0.04	36	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
40	A	0.05	51	A	0.13	51	A	0.03	51	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
41	A	0.06	68	A	0.14	68	A	0.04	68	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
42	B	0.34	228	B	0.45	228	A	0.18	207	B	0.08	308	B	0.08	308	B	0.06	308	B	0.06	308	B	0.11	308
43	C	0.33	2598	C	0.75	2598	C	0.34	2598	B	0.08	394	B	0.08	394	B	0.08	394	B	0.07	394	B	0.12	394
44	C	0.34	2598	C	0.77	2598	C	0.36	2598	B	0.08	425	B	0.08	425	B	0.08	425	B	0.07	425	B	0.12	425
45	C	0.34	2673	C	0.78	2673	C	0.34	2673	B	0.12	559	B	0.11	559	B	0.11	559	B	0.1	559	B	0.2	559

Continued on next page

Table 185 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
46	C	0.04	2609	C	0.12	2609	C	0.02	2609	B	0.1	458	B	0.11	458	B	0.11	458	B	0.09	458	B	0.19	458
47	C	0.34	2673	C	0.76	2673	C	0.36	2673	B	0.12	567	B	0.12	567	B	0.12	567	B	0.1	567	B	0.17	567
48	C	0.39	1542	C	0.82	1542	C	0.45	1542	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
49	A	0.06	54	A	0.14	54	A	0.04	54	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	A	0.07	152	A	0.14	152	A	0.05	152	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
52	A	0.06	78	A	0.14	78	A	0.04	78	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
53	A	0.07	86	A	0.14	86	A	0.04	86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
54	C	0.17	154	C	0.23	154	C	0.13	154	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
55	A	0.13	72	A	0.2	72	A	0.11	72	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
56	C	0.17	175	C	0.24	175	C	0.14	175	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
57	C	0.14	151	C	0.2	151	C	0.11	151	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
58	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
59	A	0.16	132	A	0.23	132	A	0.13	132	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
60	C	0.18	230	C	0.24	230	C	0.15	230	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
61	A	0.12	49	A	0.17	49	A	0.07	49	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
62	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
63	A	0.28	482	A	0.32	482	A	0.21	482	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
64	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
65	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
66	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
67	B	0.16	154	B	0.22	154	B	0.12	154	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
68	A	0.12	86	A	0.17	86	A	0.07	86	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
70	C	0.19	195	C	0.24	195	C	0.15	195	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
71	C	0.17	120	C	0.23	120	C	0.14	120	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
72	C	0.13	99	C	0.2	99	C	0.11	99	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
73	C	0.17	188	C	0.23	188	C	0.14	188	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 185 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
74	A	0.16	141	A	0.22	141	A	0.13	141	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
75	A	0.14	96	A	0.21	96	A	0.12	96	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
76	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
77	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
78	C	0.19	205	C	0.25	205	C	0.15	205	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
79	C	0.3	193	C	0.34	193	C	0.27	193	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
80	A	0.12	99	A	0.19	99	A	0.09	99	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
81	C	0.23	345	C	0.27	345	C	0.17	345	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
82	A	0.17	201	A	0.23	201	A	0.11	201	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
83	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
84	A	0.1	21	A	0.16	21	A	0.06	21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
85	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
86	B	0.11	180	B	0.18	180	B	0.08	180	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
87	C	0.17	122	C	0.21	122	C	0.17	124	C	0.06	364	C	0.06	364	C	0.06	364	C	0.05	364	C	0.06	364
88	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
89	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
90	A	0.04	82	A	0.12	82	A	0.02	82	A	0.02	82	A	0.03	82	A	0.02	82	A	0.01	82	A	0.02	82
91	C	0.04	729	C	0.13	729	C	0.03	602	C	0.08	659	C	0.08	659	C	0.08	661	C	0.07	659	C	0.09	661
92	C	0.49	1019	C	0.71	1019	C	0.34	1019	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
93	B	0.01	70	B	0.1	70	B	0.	70	B	0.	70	B	0.02	70	B	0.02	70	B	0.	70	B	0.	70
94	C	0.03	34	C	0.12	34	C	0.02	34	C	0.02	14	C	0.02	14	C	0.02	14	C	0.01	14	C	0.02	14
95	C	0.12	738	C	0.2	738	C	0.1	738	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
96	C	0.01	33	C	0.1	33	C	0.	33	C	0.01	23	C	0.02	23	C	0.02	23	C	0.02	23	C	0.02	23
97	C	0.01	61	C	0.1	61	C	0.	61	C	0.05	29	C	0.05	29	C	0.05	29	C	0.04	29	C	0.05	29
98	C	0.97	1449	C	4.47	1449	C	0.57	1449	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
99	A	0.01	15	A	0.1	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
100	A	0.02	18	A	0.1	18	A	0.	18	A	0.	18	A	0.	18	A	0.02	18	A	0.	18	A	0.	18
101	A	0.02	38	A	0.11	38	A	0.01	38	C	0.17	2083	C	0.17	2083	C	0.19	2083	C	0.25	8742	C	0.36	8742

Continued on next page

Table 185 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
102	A	0.02	56	A	0.11	56	A	0.01	56	C	0.65	8165	C	0.67	8165	C	0.72	8165	C	1.25	65996	C	1.86	65996
103	A	0.03	92	A	0.11	92	A	0.01	92	C	0.4	10550	F	0	0	F	0	0	F	0	0	F	0	0
104	A	0.03	74	A	0.11	74	A	0.01	74	C	3.59	22625	C	4.	22625	C	3.85	22625	F	0	0	C	11.98	330647
105	A	0.03	74	A	0.11	74	A	0.01	74	C	3.61	22625	C	3.96	22625	C	3.85	22625	F	0	0	C	12.12	330647
106	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
107	A	0.07	64	A	0.12	64	A	0.02	64	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
108	B	0.03	223	B	0.11	223	B	0.02	223	C	0.51	14801	F	0	0	F	0	0	F	0	0	F	0	0
109	A	0.03	56	A	0.11	56	A	0.02	56	C	0.07	541	C	0.08	541	C	0.08	541	C	0.1	1111	C	0.11	1111
110	A	0.07	91	A	0.12	91	A	0.02	91	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
111	A	0.07	117	A	0.12	117	A	0.02	117	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
112	A	0.07	145	A	0.12	145	A	0.02	145	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
113	A	0.03	69	A	0.11	69	A	0.01	69	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
114	A	0.02	154	A	0.1	154	A	0.01	154	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
115	A	0.02	124	A	0.1	124	A	0.01	124	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
116	A	0.02	42	A	0.12	42	A	0.01	42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
117	A	0.06	262	B	0.13	960	B	0.02	960	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
118	A	0.05	200	A	0.12	200	A	0.02	200	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
119	A	0.06	93	A	0.12	93	A	0.02	93	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
120	A	0.07	157	A	0.13	362	A	0.03	362	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
121	A	0.03	47	A	0.11	47	A	0.01	47	C	0.31	1978	C	0.22	1978	C	0.25	1978	F	0	0	C	0.42	8327
122	A	0.03	37	A	0.11	37	A	0.01	37	C	0.35	1977	C	0.28	1977	C	0.28	1977	C	0.34	8326	C	0.48	8326
123	A	0.03	56	A	0.11	56	A	0.02	56	C	1.66	8179	C	1.17	8179	C	1.28	8179	C	1.69	66010	C	2.76	66010
124	A	0.02	64	A	0.11	64	A	0.01	64	C	52.61	7814	C	1.34	7814	C	1.45	7814	C	1.85	63535	C	3.57	63535
125	A	0.06	82	A	0.13	82	A	0.02	82	C	0.36	1403	F	0	0	F	0	0	F	0	0	F	0	0
126	A	0.08	128	A	0.14	128	A	0.03	128	C	0.79	15342	F	0	0	F	0	0	F	0	0	F	0	0
127	B	0.07	418	B	0.13	1494	B	0.03	1494	C	1.64	27486	F	0	0	F	0	0	F	0	0	F	0	0
128	A	0.07	98	B	0.12	374	B	0.02	374	C	0.37	1689	F	0	0	F	0	0	F	0	0	F	0	0
129	B	0.06	149	B	0.12	149	B	0.02	149	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 185 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
130	A	0.05	105	A	0.13	105	A	0.02	105	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
131	B	0.05	315	B	0.12	315	B	0.02	315	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
132	A	0.06	59	A	0.12	59	A	0.02	59	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
133	A	0.06	29	A	0.12	29	A	0.03	29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
134	B	0.06	304	B	0.12	304	B	0.02	304	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
135	A	0.05	29	A	0.12	29	A	0.02	29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
136	A	0.05	42	A	0.11	42	A	0.02	42	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
137	A	0.03	29	A	0.11	29	A	0.01	29	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
138	A	0.05	151	A	0.12	151	A	0.02	151	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
139	B	0.04	315	B	0.12	315	B	0.02	315	C	1.45	54244	F	0	0	F	0	0	F	0	0	F	0	0
140	A	0.01	15	A	0.1	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15	A	0.	15
141	A	0.02	18	A	0.1	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18	A	0.	18
142	C	0.22	479	C	0.31	479	C	0.19	479	C	0.28	479	C	0.16	479	C	0.17	400	C	0.16	692	C	0.23	692
143	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
144	C	1.19	4990	C	1.43	4990	C	1.07	4990	C	1.1	4990	C	0.75	4990	C	0.73	4990	C	0.61	4990	F	0	0
145	C	0.12	306	C	0.2	306	C	0.08	306	C	0.44	3019	C	0.31	3019	C	0.36	3019	C	0.34	3019	C	1.16	2536
146	C	0.63	1690	C	0.81	1690	C	0.56	1690	C	0.72	1690	C	0.39	1690	C	0.42	1690	C	0.38	2118	C	0.56	2118
147	C	0.4	1609	C	0.59	1609	C	0.39	1609	C	0.36	1609	C	0.26	1609	C	0.3	1609	C	0.3	2037	C	0.39	2037
148	C	0.67	1811	C	0.87	1811	C	0.61	1811	C	0.6	1811	C	0.43	1811	C	0.44	1811	C	0.41	2237	C	0.59	2237
149	C	0.47	1750	C	0.68	1750	C	0.45	1750	C	0.43	1750	C	0.32	1750	C	0.33	1750	C	0.33	2176	C	0.45	2176
150	C	0.11	292	C	0.2	292	C	0.08	292	C	0.53	1630	C	0.4	1630	C	0.48	1630	C	0.32	1630	C	0.69	1630
151	C	1.23	7429	C	1.44	7429	C	1.5	7429	C	3.81	7429	C	2.52	7377	C	2.37	7377	C	1.9	7377	C	13.73	7377
152	C	2.3	6425	C	2.6	6425	C	2.45	6425	C	2.17	6425	C	1.62	6425	C	2.04	6425	C	1.07	6425	F	0	0
153	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
154	C	0.84	2367	C	1.01	2367	C	0.69	2367	C	0.75	2367	C	0.5	2367	C	0.62	2367	C	0.43	2367	F	0	0
155	C	0.82	2355	C	1.02	2355	C	0.71	2355	C	0.73	2355	C	0.48	2355	C	0.6	2355	C	0.44	2355	F	0	0
156	C	0.12	335	C	0.2	335	C	0.08	286	C	0.3	1630	C	0.25	1630	C	0.31	1630	C	0.26	1630	C	0.59	1630
157	A	0.02	79	A	0.11	79	A	0.01	79	A	0.01	79	A	0.	79	A	0.02	79	A	0.01	79	A	0.02	79

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Table 185 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
158	C	0.35	172	C	0.4	172	C	0.25	174	C	0.1	444	C	0.08	444	C	0.06	444	C	0.06	444	C	0.08	444
159	A	0.02	48	A	0.1	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48	A	0.	48
160	B	0.07	121	B	0.16	121	B	0.06	121	B	0.06	121	B	0.04	121	B	0.06	121	B	0.05	121	B	0.08	121

2.184 $7_Inverse_hyperbolic_functions\7.2aInversehyperbolictangent\7.2.2.1x^m(c-a^2cx^2)^pE^{(narctanh(ax))}$

Table 186: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.06	183	B	0.14	183	B	0.04	183	B	0.04	183	B	0.05	183	B	0.05	183	B	0.03	183	B	0.05	183
2	A	0.02	137	A	0.1	137	A	0.01	137	A	0.01	137	A	0.01	137	A	0.02	137	A	0.01	137	A	0.02	137
3	A	0.03	143	A	0.11	143	A	0.02	143	A	0.02	143	A	0.02	143	A	0.02	143	A	0.02	143	A	0.03	143
4	B	0.02	79	B	0.11	79	B	0.01	79	B	0.02	79	B	0.02	79	B	0.02	79	B	0.01	79	B	0.	79
5	A	0.04	75	A	0.12	75	A	0.02	75	A	0.02	75	A	0.02	75	A	0.02	75	A	0.02	75	A	0.03	75
6	B	0.05	262	B	0.13	262	B	0.04	262	B	0.04	262	B	0.04	262	B	0.05	262	B	0.03	262	B	0.02	262
7	B	0.03	243	B	0.12	243	B	0.02	243	B	0.02	243	B	0.02	243	B	0.02	243	B	0.02	243	B	0.03	243
8	A	0.02	58	A	0.11	58	A	0.01	58	A	0.01	58	A	0.02	58	A	0.01	58	A	0.01	58	A	0.02	58
9	A	0.02	58	A	0.1	58	A	0.01	58	A	0.01	58	A	0.01	58	A	0.02	58	A	0.01	58	A	0.02	58
10	B	0.05	326	B	0.12	326	B	0.03	326	B	0.02	326	B	0.02	326	B	0.03	326	B	0.02	326	B	0.03	326
11	A	0.02	74	A	0.1	74	A	0.01	74	A	0.01	74	A	0.01	74	A	0.02	74	A	0.01	74	A	0.03	74
12	A	0.02	12	A	0.11	12	A	0.01	12	A	0.01	12	A	0.01	12	A	0.02	12	A	0.	12	A	0.	12
13	A	0.02	41	A	0.11	41	A	0.02	41	A	0.02	41	A	0.01	41	A	0.02	41	A	0.01	41	A	0.	41
14	A	0.04	62	A	0.12	62	A	0.02	62	A	0.02	62	A	0.02	62	A	0.02	62	A	0.01	62	A	0.02	62
15	A	0.03	60	A	0.11	60	A	0.02	60	A	0.02	60	A	0.01	60	A	0.01	60	A	0.01	60	A	0.02	60
16	A	0.03	60	A	0.11	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.01	60	A	0.	60
17	A	0.05	59	A	0.12	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.02	59	A	0.01	59	A	0.02	59
18	A	0.04	55	A	0.11	55	A	0.02	55	A	0.03	55	A	0.02	55	A	0.02	55	A	0.02	55	A	0.03	55

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Table 186 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
19	A 0.03 53	A 0.12 53	A 0.03 53	A 0.02 53	A 0.03 53	A 0.03 53	A 0.02 53	A 0.03 53
20	A 0.04 62	A 0.12 62	A 0.03 62	A 0.03 62	A 0.03 62	A 0.03 62	A 0.02 62	A 0.03 62
21	A 0.04 101	A 0.13 101	A 0.03 102	A 0.03 101	A 0.04 102	A 0.03 102	A 0.03 101	A 0.02 102
22	A 0.05 161	A 0.13 161	A 0.03 161	A 0.03 161	A 0.03 161	A 0.03 161	A 0.03 161	A 0.03 161
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	C 0.17 100	C 0.52 100	C 0.08 103	C 0.33 103	C 0.09 103	C 0.07 103	C 0.07 103	C 0.14 103
25	C 0.18 177	C 0.53 177	C 0.1 191	C 0.12 191	C 0.1 191	C 0.09 191	C 0.09 191	C 0.2 191
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	A 0.01 23	A 0.1 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0. 23	A 0.02 23
29	A 0.01 20	A 0.1 20	A 0. 20	A 0. 20	A 0. 20	A 0.02 20	A 0. 20	A 0. 20
30	A 0.02 22	A 0.1 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22
31	A 0.01 33	A 0.1 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33	A 0. 33
32	A 0.02 40	A 0.1 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0. 40
33	A 0.02 31	A 0.1 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0. 31	A 0. 31	A 0.02 31
34	A 0.02 40	A 0.1 40	A 0.01 40	A 0.01 40	A 0.01 40	A 0. 40	A 0. 40	A 0. 40
35	A 0.02 31	A 0.1 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0. 31	A 0. 31	A 0. 31
36	A 0.01 57	A 0.09 57	A 0. 57	A 0. 57	A 0. 57	A 0.02 57	A 0. 57	A 0.02 57
37	A 0.02 71	A 0.1 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0.02 71	A 0. 71	A 0. 71
38	A 0.02 31	A 0.11 31	A 0.01 31	A 0.01 31	A 0.02 31	A 0.01 31	A 0. 31	A 0. 31
39	A 0.04 90	A 0.11 90	A 0.02 90	A 0.02 90	A 0.02 90	A 0.01 90	A 0.01 90	A 0. 90
40	A 0.03 90	A 0.11 90	A 0.02 90	A 0.02 90	A 0.02 90	A 0. 90	A 0.01 90	A 0. 90
41	B 0.04 186	B 0.12 186	B 0.02 186	B 0.05 186	B 0.02 186	B 0.03 186	B 0.02 186	B 0.03 186
42	B 0.04 239	B 0.14 239	B 0.03 239	B 0.02 239	B 0.03 239	B 0.03 239	B 0.02 239	B 0.02 239
43	B 0.03 186	B 0.11 186	B 0.02 186	B 0.02 186	B 0.02 186	B 0.02 186	B 0.02 186	B 0.03 186
44	B 0.05 339	B 0.13 339	B 0.03 339	B 0.03 339	B 0.03 339	B 0.03 339	B 0.03 339	B 0.03 339
45	B 0.05 388	B 0.14 388	B 0.04 388	B 0.04 388	B 0.04 388	B 0.03 388	B 0.03 388	B 0.05 388
46	B 0.06 412	B 0.14 412	B 0.04 412	B 0.04 412	B 0.04 412	B 0.03 412	B 0.03 412	B 0.05 412

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Table 186 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
47	B 0.04 306	B 0.12 306	B 0.02 306	B 0.02 306	B 0.02 306	B 0.03 306	B 0.02 306	B 0.03 306
48	B 0.02 242	B 0.11 242	B 0.01 242	B 0.01 242	B 0.01 242	B 0.02 242	B 0.01 242	B 0. 242
49	B 0.04 399	B 0.13 399	B 0.03 399	B 0.03 399	B 0.03 399	B 0.02 399	B 0.02 399	B 0.03 399
50	A 0.04 149	A 0.12 149	A 0.02 149	A 0.02 149	A 0.02 149	A 0.03 149	A 0.02 149	A 0.03 149
51	A 0.02 126	A 0.11 126	A 0.02 126	A 0.01 126	A 0.02 126	A 0.02 126	A 0.01 126	A 0.03 126
52	A 0.02 103	A 0.1 103	A 0.01 103	A 0.01 103	A 0.01 103	A 0.02 103	A 0.01 103	A 0.02 103
53	B 0.03 166	B 0.12 166	B 0.02 166	B 0.02 166	B 0.02 166	B 0.01 166	B 0.02 166	B 0.03 166
54	A 0.02 32	A 0.1 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0.02 32	A 0.01 32	A 0. 32
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
56	B 0.04 121	B 0.12 121	B 0.02 121	B 0.04 121	B 0.02 121	B 0.03 121	B 0.02 121	B 0.03 121
57	B 0.07 183	B 0.15 183	B 0.04 183	B 0.04 183	B 0.04 183	B 0.05 183	B 0.04 183	B 0.06 183
58	A 0.02 28	A 0.1 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0.02 28	A 0. 28	A 0. 28
59	A 0.03 63	A 0.11 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63	A 0.02 63
60	A 0.04 89	A 0.12 89	A 0.03 89	A 0.03 89	A 0.03 89	A 0.03 89	A 0.02 89	A 0.03 89
61	A 0.02 50	A 0.1 50	A 0. 50	A 0.01 50	A 0. 50	A 0.02 50	A 0. 50	A 0. 50
62	A 0.02 81	A 0.1 81	A 0.01 81	A 0.01 81	A 0.01 81	A 0. 81	A 0.01 81	A 0. 81
63	A 0.02 97	A 0.1 97	A 0.01 97	A 0.01 97	A 0.01 97	A 0.02 97	A 0.01 97	A 0.02 97
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
66	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
67	A 0.01 75	A 0.09 75	A 0. 75	A 0. 75	A 0. 75	A 0. 75	A 0. 75	A 0. 75
68	A 0.02 34	A 0.1 34	A 0. 34	A 0. 34	A 0. 34	A 0.02 34	A 0. 34	A 0. 34
69	A 0.02 64	A 0.1 64	A 0.01 64	A 0.01 64	A 0.01 64	A 0.02 64	A 0.01 64	A 0.02 64
70	A 0.02 74	A 0.11 74	A 0.01 74	A 0.01 74	A 0.01 74	A 0.02 74	A 0.01 74	A 0.02 74
71	A 0.02 48	A 0.1 48	A 0. 48	A 0. 48	A 0.01 48	A 0.02 48	A 0. 48	A 0. 48
72	A 0.02 81	A 0.11 81	A 0.01 81	A 0.01 81	A 0.01 81	A 0.02 81	A 0.01 81	A 0.02 81
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	A 0.01 14	A 0.1 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14

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Table 186 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
75	A 0.03 60	A 0.11 60	A 0.02 60	A 0.02 60	A 0.02 60	A 0.02 60	A 0.01 60	A 0. 60
76	A 0.03 90	A 0.11 90	A 0.02 90	A 0.02 90	A 0.02 90	A 0.02 90	A 0.01 90	A 0.02 90
77	A 0.03 202	A 0.12 202	A 0.02 202	A 0.02 202	A 0.02 202	A 0.02 202	A 0.02 202	A 0.03 202
78	A 0.02 126	A 0.1 126	A 0.01 126	A 0.01 126	A 0.01 126	A 0.02 126	A 0.01 126	A 0. 126
79	B 0.02 174	B 0.11 174	B 0.02 174	B 0.01 174	B 0.01 174	B 0. 174	B 0.01 174	B 0.02 174
80	B 0.03 276	B 0.11 276	B 0.02 276	B 0.02 276	B 0.02 276	B 0.02 276	B 0.02 276	B 0.02 276
81	A 0.02 31	A 0.1 31	A 0.01 31	A 0.01 31	A 0.01 31	A 0.02 31	A 0.01 31	A 0. 31
82	A 0.03 79	A 0.12 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.01 79	A 0.02 79	A 0.03 79
83	A 0.05 73	A 0.12 73	A 0.03 73	A 0.03 73	A 0.03 73	A 0.03 73	A 0.02 73	A 0.03 73
84	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
85	A 0.02 86	A 0.1 86	A 0.01 86	A 0.01 86	A 0.01 86	A 0.01 86	A 0.01 86	A 0.02 86
86	A 0.02 102	A 0.1 102	A 0.01 102	A 0.01 102	A 0.01 102	A 0. 102	A 0.01 102	A 0.02 102
87	A 0.02 55	A 0.1 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0.02 55	A 0.01 55	A 0. 55
88	A 0.02 87	A 0.1 87	A 0.01 87	A 0.01 87	A 0.01 87	A 0.02 87	A 0.02 87	A 0.02 87
89	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
90	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
91	A 0.02 62	A 0.1 62	A 0.01 62	A 0.29 62	A 0.01 62	A 0.02 62	A 0.01 62	A 0.02 62
92	A 0.02 47	A 0.11 47	A 0.01 47	A 8.9 47	A 0.01 47	A 0.02 47	A 0.01 47	A 0.02 47
93	A 0.02 167	A 0.11 167	A 0.01 167	A 0.66 167	A 0.02 167	A 0.01 169	A 0.01 169	A 0.03 169
94	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
95	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
96	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
97	A 0.02 49	A 0.1 49	A 0.01 49	A 0.01 49	A 0.01 49	A 0.02 49	A 0.01 49	A 0. 49
98	B 0.05 186	B 0.12 186	B 0.02 186	B 0.42 186	B 0.02 186	B 0.02 186	B 0.01 186	B 0.02 186
99	A 0.03 49	A 0.11 49	A 0.01 49	A 0.06 49	A 0.02 49	A 0.02 49	A 0.01 49	A 0.02 49
100	A 0.04 49	A 0.12 49	A 0.02 49	A 0.02 49	A 0.03 49	A 0.03 49	A 0.02 49	A 0.03 49

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Table 187: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.02	127	A	0.1	127	A	0.01	127	A	0.48	127	A	0.01	127	A	0.01	127	A	0.01	127	A	0.02	127
2	A	0.02	45	A	0.1	45	A	0.01	45	A	0.01	45	A	0.01	45	A	0.02	45	A	0.	45	A	0.02	45
3	A	0.01	24	A	0.1	24	A	0.	24	A	0.03	24	A	0.	24	A	0.	24	A	0.	24	A	0.	24
4	A	0.02	75	A	0.1	75	A	0.01	75	A	0.04	75	A	0.01	75	A	0.02	75	A	0.01	75	A	0.02	75
5	B	0.03	154	B	0.11	154	B	0.02	154	B	0.04	154	B	0.02	154	B	0.01	154	B	0.02	154	B	0.03	154
6	B	0.02	134	B	0.1	134	B	0.01	134	B	0.01	134	B	0.01	134	B	0.02	134	B	0.01	134	B	0.02	134
7	B	0.02	119	B	0.1	119	B	0.01	119	B	0.01	119	B	0.01	119	B	0.02	119	B	0.01	119	B	0.02	119
8	B	0.05	207	B	0.12	207	B	0.03	207	B	0.17	207	B	0.03	207	B	0.03	207	B	0.02	207	B	0.03	207
9	A	0.01	40	A	0.1	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40	A	0.	40
10	B	0.04	235	B	0.13	235	B	0.03	235	B	0.03	235	B	0.03	235	B	0.03	235	B	0.03	235	B	0.03	235
11	B	0.02	169	B	0.11	169	B	0.01	169	B	0.01	169	B	0.02	169	B	0.02	169	B	0.01	169	B	0.02	169
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
18	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
22	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
23	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
24	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
25	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
26	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 187 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0.15 139	A 0.79 139	A 0.1 149	A 0.86 149	A 0.08 149	A 0.06 149	A 0.08 149	A 0.12 149
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	A 0.02 91	A 0.1 91	A 0.01 91	A 0.11 91	A 0.01 91	A 0.01 91	A 0.01 91	A 0.02 91
33	A 0.02 35	A 0.1 35	A 0.01 35	A 0.03 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0. 35
34	A 0.01 16	A 0.09 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
35	A 0.02 42	A 0.1 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0.01 42	A 0. 42	A 0. 42
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	A 0.02 28	A 0.1 28	A 0.01 28	A 0.01 28	A 0.01 28	A 0. 28	A 0.01 28	A 0. 28
38	A 0.02 33	A 0.1 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0. 33	A 0.01 33	A 0. 33
39	A 0.01 64	A 0.1 64	A 0.01 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64
40	A 0.03 245	A 0.11 245	A 0.02 245	A 0.01 245	A 0.02 245	A 0.02 245	A 0.01 245	A 0.02 245
41	B 0.02 169	B 0.11 169	B 0.01 169	B 0.01 169	B 0.02 169	B 0. 169	B 0.01 169	B 0.02 169
42	A 0.02 34	A 0.1 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0.02 34
43	A 0.02 65	A 0.1 65	A 0.01 65	A 0.01 65	A 0.01 65	A 0. 65	A 0.01 65	A 0.02 65
44	A 0.02 71	A 0.1 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0.02 71	A 0.01 71	A 0.02 71
45	A 0.02 63	A 0.1 63	A 0.01 63	A 0.01 63	A 0.01 63	A 0.01 63	A 0.01 63	A 0.02 63
46	A 0.02 55	A 0.1 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0.02 55	A 0.01 55	A 0.02 55
47	A 0.02 21	A 0.1 21	A 0.01 21	A 0. 21	A 0.01 21	A 0.01 21	A 0.01 21	A 0.02 21
48	A 0.02 47	A 0.1 47	A 0.01 47	A 0.01 47	A 0. 47	A 0. 47	A 0. 47	A 0.02 47
49	A 0.02 64	A 0.1 64	A 0.01 64	A 0.01 64	A 0.01 64	A 0.02 64	A 0.01 64	A 0.02 64
50	A 0.02 71	A 0.1 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0.01 71	A 0.02 71
51	A 0.02 62	A 0.1 62	A 0.01 62	A 0.01 62	A 0.01 62	A 0.02 62	A 0.01 62	A 0.02 62
52	A 0.07 173	A 0.14 173	A 0.04 173	A 0.15 173	A 0.04 173	A 0.05 173	A 0.03 173	A 0.03 173
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 187 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	A 0.02 32	A 0.1 32	A 0.01 32	A 0.01 32	A 0.01 32	A 0.02 32	A 0.01 32	A 0.02 32
57	A 0.03 125	A 0.12 125	A 0.02 125	A 0.02 125	A 0.02 125	A 0.01 125	A 0.01 125	A 0. 125
58	A 0.02 186	A 0.11 186	A 0.01 186	A 0.02 186	A 0.01 186	A 0.02 186	A 0.01 186	A 0.02 186
59	A 0.02 114	A 0.11 114	A 0.01 114	A 0.01 114	A 0.01 114	A 0.01 114	A 0.01 114	A 0. 114
60	A 0.03 190	A 0.12 190	A 0.02 190	A 0.01 190	A 0.02 190	A 0. 190	A 0.01 190	A 0.02 190
61	A 0.03 136	A 0.11 136	A 0.02 136	A 0.01 136	A 0.02 136	A 0.02 136	A 0.01 136	A 0. 136
62	A 0.03 166	A 0.11 166	A 0.02 166	A 0.01 166	A 0.01 166	A 0.02 166	A 0.01 166	A 0.03 166
63	A 0.02 61	A 0.11 61	A 0.01 61	A 0.01 61	A 0.02 61	A 0.02 61	A 0.01 61	A 0. 61
64	A 0.02 77	A 0.12 77	A 0.02 77	A 0.01 77	A 0.02 77	A 0.02 77	A 0.01 77	A 0.02 77
65	A 0.03 99	A 0.11 99	A 0.02 99	A 0.01 99	A 0.02 99	A 0.02 99	A 0.01 99	A 0.02 99
66	A 0.03 142	A 0.11 142	A 0.02 142	A 0.02 142	A 0.02 142	A 0.01 142	A 0.01 142	A 0.02 142
67	A 0.03 187	A 0.12 187	A 0.02 187	A 0.02 187	A 0.02 187	A 0.02 187	A 0.01 187	A 0.03 187
68	A 0.03 164	A 0.11 164	A 0.02 164	A 0.01 164	A 0.02 164	A 0.02 164	A 0.01 164	A 0.02 164
69	A 0.03 122	A 0.11 122	A 0.02 122	A 0.01 122	A 0.02 122	A 0.01 122	A 0.01 122	A 0. 122
70	A 0.03 118	A 0.11 118	A 0.02 118	A 0.01 118	A 0.02 118	A 0.02 118	A 0.01 118	A 0.02 118
71	A 0.03 181	A 0.11 181	A 0.02 181	A 0.01 181	A 0.02 181	A 0.02 181	A 0.01 181	A 0.02 181
72	A 0.03 226	A 0.11 226	A 0.02 226	A 0.02 226	A 0.02 226	A 0.02 226	A 0.01 226	A 0.02 226
73	A 0.02 41	A 0.1 41	A 0.01 41	A 0.01 41	A 0.01 41	A 0. 41	A 0.01 41	A 0.02 41
74	A 0.03 223	A 0.11 223	A 0.02 223	A 0.02 223	A 0.02 223	A 0.01 223	A 0.01 223	A 0.02 223
75	A 0.02 41	A 0.1 41	A 0.01 41	A 0.01 41	A 0.01 41	A 0. 41	A 0. 41	A 0. 41
76	A 0.02 24	A 0.1 24	A 0.01 24	A 0.01 24	A 0. 24	A 0. 24	A 0.01 24	A 0. 24
77	A 0.01 29	A 0.1 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29	A 0. 29
78	A 0.01 28	A 0.1 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0.02 28
79	A 0.02 48	A 0.1 48	A 0.01 48	A 0.01 48	A 0.02 48	A 0. 48	A 0. 48	A 0. 48
80	A 0.02 34	A 0.1 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34	A 0. 34
81	A 0.04 78	A 0.12 78	A 0.03 78	A 0.02 78	A 0.03 78	A 0.02 78	A 0.02 78	A 0.02 78
82	A 0.04 93	B 0.11 222	B 0.02 222	B 0.02 222	B 0.02 222	B 0.01 222	B 0.01 222	B 0.02 222
83	A 0.04 112	A 0.12 112	A 0.02 112	A 0.02 112	A 0.03 112	A 0.03 112	A 0.02 112	A 0.03 112

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Table 187 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
84	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
85	A 0.03 69	A 0.12 69	A 0.02 69	A 0.02 69	A 0.02 69	A 0.02 69	A 0.02 69	A 0.03 69
86	A 0.02 101	A 0.11 101	A 0.02 101	A 0.01 101	A 0.02 101	A 0.02 101	A 0.01 101	A 0.02 101
87	A 0.02 54	A 0.1 54	A 0.01 54	A 0.01 54	A 0. 54	A 0.01 54	A 0.01 54	A 0.02 54
88	A 0.06 82	A 0.14 82	A 0.04 82	A 0.03 82	A 0.03 82	A 0.03 82	A 0.03 82	A 0.02 82
89	A 0.06 122	A 0.14 122	A 0.04 122	A 0.03 122	A 0.03 122	A 0.05 122	A 0.03 122	A 0.03 122
90	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
91	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
92	A 0.02 119	A 0.11 119	A 0.01 119	A 0.01 119	A 0.02 119	A 0. 119	A 0.01 119	A 0.02 119
93	A 0.03 228	A 0.12 228	A 0.02 228	A 0.02 228	A 0.02 228	A 0.02 228	A 0.02 228	A 0.03 228
94	A 0.02 67	A 0.11 67	A 0.01 67	A 0.01 67	A 0.02 67	A 0.02 67	A 0.01 67	A 0. 67
95	A 0.04 180	A 0.13 180	A 0.02 180	A 0.02 180	A 0.03 180	A 0.02 180	A 0.02 180	A 0.02 180
96	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
97	A 0.02 27	A 0.11 27	A 0.01 27	A 0.01 27	A 0. 27	A 0. 27	A 0. 27	A 0. 27
98	A 0.02 81	A 0.11 81	A 0.01 81	A 0.01 81	A 0.02 81	A 0.02 81	A 0. 81	A 0.02 81
99	B 0.04 198	B 0.13 198	B 0.03 198	B 0.02 198	B 0.01 198	B 0.02 198	B 0.02 198	B 0.03 198
100	A 0.03 65	A 0.12 65	A 0.02 65	A 0.01 65	A 0.02 65	A 0. 65	A 0.01 65	A 0. 65
101	A 0.07 91	A 0.13 89	A 0.03 91	A 0.02 91	A 0.01 89	A 0.03 89	A 0.03 91	A 0.03 91
102	A 0.04 158	A 0.13 158	A 0.02 158	A 0.02 158	A 0.03 158	A 0.01 158	A 0.03 158	A 0.03 158
103	A 0.03 105	A 0.12 105	A 0.02 105	A 0.01 105	A 0.02 105	A 0.02 105	A 0.02 105	A 0.02 105
104	B 0.06 401	B 0.14 401	B 0.04 401	B 0.03 401	B 0.03 401	B 0.03 401	B 0.04 401	B 0.05 401
105	A 0.04 106	A 0.13 106	A 0.03 106	A 0.02 106	A 0.03 106	A 0.03 106	A 0.03 106	A 0.03 106
106	A 0.07 276	A 0.16 276	A 0.04 276	A 0.04 276	A 0.05 276	A 0.03 276	A 0.04 276	A 0.06 276
107	A 0.07 167	A 0.15 167	A 0.04 167	A 0.04 167	A 0.05 167	A 0.03 167	A 0.04 167	A 0.05 167
108	A 0.05 300	A 0.13 300	A 0.02 300	A 0.02 300	A 0.01 300	A 0.02 300	A 0.03 300	A 0.02 300
109	B 0.03 276	B 0.12 276	B 0.02 276	B 0.01 276	B 0.01 276	B 0.02 276	B 0.02 276	B 0.02 276
110	B 0.04 190	B 0.12 190	B 0.02 190	B 0.02 190	B 0.02 189	B 0.02 190	B 0.02 190	B 0.02 189
111	A 0.07 204	A 0.15 204	A 0.04 204	A 0.04 204	A 0.03 204	A 0.05 204	A 0.04 204	A 0.05 204

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Table 187 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
112	A 0.04 125	A 0.13 125	A 0.02 125	A 0.02 125	A 0.03 125	A 0.03 125	A 0.03 125	A 0.03 125
113	A 0.02 91	A 0.1 89	A 0.01 91	A 0. 91	A 0. 89	A 0. 89	A 0.01 91	A 0. 91
114	A 0.03 159	A 0.12 159	A 0.02 159	A 0.02 159	A 0.02 159	A 0.02 159	A 0.02 159	A 0.02 159
115	A 0.05 219	A 0.14 219	A 0.03 219	A 0.02 219	A 0.03 219	A 0.03 219	A 0.04 219	A 0.05 219
116	A 0.02 62	A 0.11 62	A 0.01 62	A 0.01 62	A 0.02 62	A 0.02 62	A 0.01 62	A 0.02 62
117	A 0.03 237	A 0.12 237	A 0.02 237	A 0.01 237	A 0.02 237	A 0.01 237	A 0.02 237	A 0.03 237
118	A 0.02 77	A 0.11 77	A 0.01 77	A 0.01 77	A 0.02 77	A 0. 77	A 0.01 77	A 0.02 77
119	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
120	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
121	A 0.02 73	A 0.11 73	A 0.01 73	A 0.01 73	A 0.02 73	A 0. 73	A 0. 73	A 0. 73
122	A 0.02 22	A 0.11 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
123	A 0.02 66	A 0.12 66	A 0.02 66	A 0.01 66	A 0.02 66	A 0.02 66	A 0.01 66	A 0.02 66
124	A 0.08 273	A 0.17 273	A 0.05 273	A 0.04 273	A 0.05 273	A 0.06 273	A 0.04 273	A 0.08 273
125	A 0.02 105	A 0.11 105	A 0.02 105	A 0.01 105	A 0. 105	A 0.02 105	A 0. 105	A 0. 105
126	A 0.02 50	A 0.11 50	A 0.01 50	A 0.01 50	A 0.01 50	A 0.02 50	A 0. 50	A 0. 50
127	A 0.08 249	A 0.17 249	A 0.06 249	A 0.04 249	A 0.06 249	A 0.06 249	A 0.05 249	A 0.08 249
128	A 0.03 203	A 0.12 203	A 0.02 203	A 0.01 203	A 0.02 203	A 0.02 203	A 0.01 203	A 0.02 203
129	A 0.02 157	A 0.11 157	A 0.01 157	A 0.01 157	A 0.01 157	A 0.02 157	A 0.01 157	A 0.02 157
130	A 0.04 96	A 0.11 96	A 0.02 96	A 0.02 96	A 0.02 96	A 0.02 96	A 0.01 96	A 0.02 96
131	A 0.07 243	A 0.16 243	A 0.04 243	A 0.03 243	A 0.04 243	A 0.04 243	A 0.03 243	A 0.05 243
132	B 0.05 299	B 0.12 299	B 0.03 299	B 0.02 299	B 0.02 299	B 0.02 299	B 0.02 299	B 0.02 299
133	A 0.07 102	A 0.14 102	A 0.05 102	A 0.03 102	A 0.04 102	A 0.03 102	A 0.04 102	A 0.03 102
134	A 0.05 86	A 0.13 86	A 0.03 86	A 0.02 86	A 0.03 86	A 0.03 86	A 0.03 86	A 0.02 86
135	A 0.03 50	A 0.12 50	A 0.03 50	A 0.01 50	A 0.02 50	A 0.03 50	A 0.03 50	A 0.02 50
136	B 0.1 576	B 0.16 576	B 0.06 576	B 0.05 576	B 0.06 576	B 0.04 576	B 0.06 576	B 0.08 576
137	A 0.05 70	A 0.12 70	A 0.03 70	A 0.02 70	A 0.02 70	A 0.02 70	A 0.03 70	A 0.02 70
138	A 0.05 176	A 0.14 176	A 0.04 176	A 0.03 176	A 0.04 176	A 0.03 176	A 0.04 176	A 0.03 176
139	A 0.06 248	A 0.14 248	A 0.04 248	A 0.03 248	A 0.04 248	A 0.03 248	A 0.04 248	A 0.05 248

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Table 187 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
140	A 0.04 118	A 0.13 118	A 0.03 118	A 0.02 118	A 0.03 118	A 0.03 118	A 0.03 118	A 0.03 118
141	A 0.04 70	A 0.12 70	A 0.03 70	A 0.02 70	A 0.03 70	A 0.03 70	A 0.03 70	A 0.03 70
142	A 0.04 60	A 0.13 62	A 0.03 62	A 0.02 62	A 0.03 60	A 0.02 62	A 0.03 62	A 0.02 62
143	A 0.05 176	A 0.14 176	A 0.04 176	A 0.03 176	A 0.04 176	A 0.03 176	A 0.04 176	A 0.05 176
144	A 0.07 248	A 0.14 248	A 0.04 248	A 0.03 248	A 0.04 248	A 0.05 248	A 0.04 248	A 0.05 248
145	B 0.06 347	B 0.13 347	B 0.03 348	B 0.02 347	B 0.03 347	B 0.03 348	B 0.03 347	B 0.03 347
146	A 0.03 69	A 0.12 69	A 0.02 69	A 0.02 69	A 0.02 69	A 0.01 69	A 0.03 69	A 0.03 69
147	A 0.04 61	A 0.13 61	A 0.03 61	A 0.02 61	A 0.03 61	A 0.03 61	A 0.03 61	A 0.03 61
148	A 0.04 86	A 0.13 86	A 0.03 86	A 0.02 86	A 0.03 86	A 0.03 86	A 0.04 86	A 0.03 86
149	A 0.02 56	A 0.1 56	A 0.01 56	A 0.11 56	A 0.01 56	A 0. 56	A 0.01 56	A 0.02 56
150	A 0.03 53	A 0.12 53	A 0.02 53	A 0.01 53	A 0.02 53	A 0.02 53	A 0.03 53	A 0.03 53
151	A 0.02 57	A 0.1 57	A 0.01 57	A 0.04 57	A 0.01 57	A 0.02 57	A 0.01 57	A 0.02 57
152	B 0.08 447	B 0.14 447	B 0.04 447	B 0.03 447	B 0.04 447	B 0.03 447	B 0.04 447	B 0.05 447
153	A 0.04 78	A 0.12 78	A 0.02 78	A 0.02 78	A 0.02 78	A 0.02 78	A 0.03 78	A 0.03 78
154	A 0.05 94	A 0.13 94	A 0.03 94	A 0.03 94	A 0.03 94	A 0.03 94	A 0.03 94	A 0.03 94
155	A 0.04 102	A 0.13 102	A 0.03 102	A 0.03 102	A 0.03 102	A 0.03 102	A 0.04 102	A 0.03 102
156	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
157	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
158	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
159	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
160	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
161	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
162	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
163	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
164	B 0.03 453	B 0.12 453	B 0.02 453	B 0.1 453	B 0.02 453	B 0.02 453	B 0.02 453	B 0.02 453
165	B 0.04 809	B 0.12 809	B 0.03 809	B 0.02 809	B 0.03 809	B 0.03 809	B 0.03 809	B 0.03 809
166	B 0.05 1116	B 0.13 1116	B 0.03 1116	B 0.02 1116	B 0.03 1116	B 0.03 1116	B 0.03 1116	B 0.03 1116
167	B 0.02 159	B 0.1 159	B 0. 159	B 0.01 159	B 0. 159	B 0. 159	B 0. 159	B 0. 159

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	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
168	A	0.01	67	A	0.1	67	A	0.01	67	A	0.	67	A	0.	67	A	0.	67	A	0.	67	A	0.02	67
169	A	0.02	34	A	0.11	34	A	0.02	34	A	0.01	34	A	0.02	34	A	0.	34	A	0.01	34	A	0.	34
170	A	0.04	75	A	0.11	75	A	0.01	75	A	0.02	75	A	0.02	75	A	0.01	75	A	0.01	75	A	0.	75
171	B	0.03	264	B	0.11	264	B	0.02	264	B	0.04	264	B	0.02	264	B	0.02	264	B	0.01	264	B	0.02	264
172	B	0.07	1062	B	0.14	1062	B	0.04	1062	B	0.03	1062	B	0.04	1062	B	0.03	1062	B	0.03	1062	B	0.03	1062
173	B	0.02	34	B	0.1	34	B	0.	34	B	0.	34	B	0.	34	B	0.	34	B	0.01	34	B	0.02	34
174	B	0.03	391	B	0.12	391	B	0.02	391	B	0.01	391	B	0.02	391	B	0.02	391	B	0.02	391	B	0.02	391
175	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
176	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
177	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.186 7_Inverse_hyperbolic_functions\7.2bInversehyperboliccotangent\7.2.1Inversehyperboliccotangentfunctions

Table 188: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.03	49	A	0.11	49	A	0.02	49	A	0.04	49	A	0.	49	A	0.	49	A	0.01	49	A	0.02	49
2	A	0.01	23	A	0.1	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23	A	0.	23
3	A	0.01	35	A	0.1	35	A	0.	35	A	0.04	35	A	0.	35	A	0.	35	A	0.01	35	A	0.	35
4	C	0.03	196	C	0.12	196	C	0.01	173	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	B	0.03	155	B	0.12	155	B	0.02	132	B	0.03	114	B	0.04	114	B	0.03	114	B	0.03	114	B	0.05	114
6	C	0.03	159	C	0.12	159	C	0.02	138	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
7	C	0.03	224	C	0.12	224	C	0.02	201	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
8	B	0.08	180	B	0.14	180	B	0.04	180	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	C	0.47	796	C	0.71	796	C	0.38	796	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	A	0.02	76	A	0.1	76	A	0.01	76	A	0.01	76	A	0.02	76	A	0.	76	A	0.01	76	A	0.	76
11	C	0.46	2850	C	0.47	2850	C	0.42	2853	C	0.26	4508	C	0.2	4508	C	0.22	5278	C	0.16	5278	C	0.28	5278

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Table 188 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
12	A	0.17	199	A	0.22	199	A	0.12	199	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	B	0.02	199	B	0.11	199	B	0.01	199	B	0.01	199	B	0.01	199	B	0.01	199	B	0.01	199	B	0.02	199
14	A	0.02	89	A	0.11	89	A	0.01	89	A	0.01	89	A	0.	89	A	0.01	89	A	0.01	89	A	0.02	89
15	C	0.03	365	C	0.12	365	C	0.02	304	C	0.07	334	C	0.06	331	C	0.06	334	C	0.05	334	C	0.06	331
16	B	0.02	70	B	0.1	70	B	0.	70	B	0.01	70	B	0.	70	B	0.02	70	B	0.01	70	B	0.	70
17	C	0.02	59	C	0.11	59	C	0.01	59	C	0.02	43	C	0.02	43	C	0.02	43	C	0.02	43	C	0.03	43
18	A	0.03	27	A	0.1	27	A	0.	27	A	0.	27	A	0.	27	A	0.02	27	A	0.	27	A	0.	27
19	A	0.02	37	A	0.1	37	A	0.	37	A	0.01	37	A	0.	37	A	0.	37	A	0.	37	A	0.	37
20	C	0.09	85	C	0.13	85	C	0.03	97	C	0.03	112	C	0.03	112	C	0.02	112	C	0.02	112	C	0.03	112
21	C	0.06	61	C	0.12	61	C	0.02	61	C	0.06	45	C	0.03	45	C	0.04	55	C	0.04	45	C	0.03	45
22	C	0.18	676	C	0.23	676	C	0.13	676	C	0.15	676	C	0.11	676	C	0.13	676	C	0.12	1194	C	0.19	1194
23	B	0.06	59	B	0.13	59	B	0.03	59	B	0.02	59	B	0.02	59	B	0.	59	B	0.01	59	B	0.02	59
24	B	0.04	32	B	0.13	32	B	0.02	32	C	0.04	340	C	0.06	340	C	0.06	340	C	0.08	602	C	0.08	602
25	A	0.06	20	A	0.14	20	A	0.03	20	A	0.02	20	A	0.02	20	A	0.02	20	A	0.01	20	A	0.02	20
26	A	0.08	20	A	0.14	20	A	0.03	20	A	0.01	20	A	0.02	20	A	0.02	20	A	0.01	20	A	0.02	20
27	C	0.23	3418	C	0.59	3418	C	0.2	3418	C	0.15	3418	C	0.19	3418	C	0.2	3418	C	0.25	9390	C	0.31	9390
28	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
29	C	3.3	131749	C	3.58	131085	C	3.43	131085	C	3.2	131085	F	0	0	F	0	0	F	0	0	F	0	0
30	C	0.41	27550	C	0.34	1837	C	0.19	1837	C	0.28	1837	F	0	0	F	0	0	F	0	0	F	0	0
31	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
32	C	7.15	71611	C	7.15	71611	C	4.11	26299	C	18.2	4289	F	0	0	F	0	0	F	0	0	F	0	0
33	A	0.06	21	A	0.13	21	A	0.02	21	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
34	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
35	A	0.05	20	A	0.13	20	A	0.02	20	A	0.11	20	A	0.02	20	A	0.	20	A	0.01	20	A	0.	20
36	C	1.46	5294	C	1.41	5294	C	1.06	5294	C	3.94	5294	C	3.91	5294	C	3.84	5294	C	4.33	5294	F	0	0
37	C	0.71	1736	C	0.86	1736	C	0.61	1736	C	0.5	1736	C	0.39	1736	C	0.44	1736	C	0.39	2200	C	0.59	2200
38	C	0.53	1675	C	0.68	1675	C	0.45	1675	C	0.34	1675	C	0.3	1675	C	0.34	1675	C	0.31	2139	C	0.44	2139
39	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 188 – continued from previous page

	2017.3			2016.2			2015.2			18.02			17.02			14.0			12.0					
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size			
40	C	0.71	1808	C	0.82	1808	C	0.6	1808	C	0.45	1808	C	0.41	1808	C	0.44	1808	C	0.38	2198	C	0.52	2198
41	C	1.01	5222	C	1.27	5222	C	0.87	5222	C	3.44	5222	C	3.78	5222	C	3.72	5222	C	4.25	5222	F	0	0
42	C	0.43	1647	C	0.58	1647	C	0.34	1647	C	0.52	1647	C	0.28	1647	C	0.38	1647	C	0.31	2111	C	0.42	2111
43	C	0.13	612	C	0.2	612	C	0.08	612	C	1.4	3962	C	1.08	3962	C	1.5	3944	C	0.68	3962	C	1.89	3278
44	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
45	C	0.84	2249	C	0.94	2249	C	0.63	2249	C	0.56	2249	C	0.33	2249	C	0.46	2249	C	0.34	2249	F	0	0
46	C	0.08	292	C	0.15	292	C	0.03	292	C	0.24	1618	C	0.2	1618	C	0.26	1618	C	0.21	1618	C	0.25	1618
47	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
48	C	1.	7379	C	1.14	7379	C	1.25	7379	C	2.62	7379	C	2.15	7327	C	2.35	7327	C	1.7	7327	C	4.27	7327
49	C	1.48	5506	C	1.18	5506	C	1.06	5506	C	1.14	5506	C	1.2	5456	C	1.27	5456	C	0.99	5456	C	4.29	5456
50	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
51	A	0.03	185	A	0.1	185	A	0.01	185	A	0.02	185	A	0.02	185	A	0.	185	A	0.01	185	A	0.	185

2.187 7_Inverse_hyperbolic_functions\7.2bInversehyperboliccotangent\7.2.2Exponentialsofinversehyperboliccotangentfunctions

Table 189: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	B	0.05	132	B	0.12	131	B	0.03	132	B	0.07	131	B	0.02	131	B	0.02	131	B	0.02	131	B	0.03	131
2	A	0.01	14	A	0.1	14	A	0.	14	A	0.01	14	A	0.	14	A	0.	14	A	0.	14	A	0.	14
3	B	0.06	593	B	0.12	593	B	0.03	593	B	0.02	593	B	0.03	593	B	0.02	593	B	0.02	593	B	0.03	593
4	B	0.03	173	B	0.11	173	B	0.02	173	B	0.02	173	B	0.02	173	B	0.02	173	B	0.02	173	B	0.02	173
5	B	0.02	152	B	0.11	152	B	0.01	152	B	0.01	152	B	0.02	152	B	0.01	152	B	0.01	152	B	0.02	152
6	B	0.02	98	B	0.1	98	B	0.01	98	B	0.01	98	B	0.	98	B	0.02	99	B	0.01	98	B	0.02	98
7	B	0.05	308	B	0.12	308	B	0.03	308	B	0.03	308	B	0.03	308	B	0.03	308	B	0.02	308	B	0.03	308
8	A	0.01	32	A	0.1	32	A	0.	32	A	0.	32	A	0.02	32	A	0.	32	A	0.	32	A	0.	32
9	B	0.04	471	B	0.12	471	B	0.03	471	B	0.02	471	B	0.02	471	B	0.03	471	B	0.02	471	B	0.02	471

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Table 189 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
10	B 0.03 248	B 0.11 248	B 0.01 248	B 0.01 248	B 0.02 248	B 0. 248	B 0.01 248	B 0. 248
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	C 0.16 106	C 0.51 106	C 0.07 106	C 0.17 106	C 0.06 106	C 0.07 106	C 0.06 106	C 0.12 106
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	A 0.02 121	A 0.11 121	A 0.01 121	A 0.01 121	A 0.02 121	A 0.01 121	A 0.01 121	A 0.02 121
32	A 0.02 36	A 0.1 36	A 0.01 36	A 0.01 36	A 0. 36	A 0.01 36	A 0.01 36	A 0. 36
33	A 0.01 16	A 0.09 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16	A 0. 16
34	A 0.02 42	A 0.11 42	A 0.01 42	A 0.01 42	A 0.02 42	A 0.02 42	A 0. 42	A 0. 42
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	A 0.02 36	A 0.1 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0.01 36	A 0. 36
37	A 0.02 41	A 0.1 41	A 0.01 41	A 0.01 41	A 0. 41	A 0. 41	A 0.01 41	A 0.02 41

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Table 189 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
38	A 0.02 64	A 0.1 64	A 0. 64	A 0. 64	A 0.02 64	A 0.02 64	A 0. 64	A 0. 64
39	B 0.04 542	B 0.12 542	B 0.02 542	B 0.02 542	B 0.02 542	B 0.02 542	B 0.02 542	B 0.03 542
40	B 0.03 422	B 0.12 422	B 0.02 422	B 0.01 422	B 0.02 422	B 0.02 422	B 0.02 422	B 0.02 422
41	A 0.02 35	A 0.1 35	A 0.01 35	A 0.01 35	A 0.02 35	A 0. 35	A 0.01 35	A 0. 35
42	A 0.02 66	A 0.11 66	A 0.01 66	A 0.01 66	A 0. 66	A 0.01 66	A 0.01 66	A 0.02 66
43	A 0.02 72	A 0.11 72	A 0.01 72	A 0.01 72	A 0.02 72	A 0.01 72	A 0.01 72	A 0.02 72
44	A 0.02 64	A 0.11 64	A 0.01 64	A 0.01 64	A 0.02 64	A 0.02 64	A 0.01 64	A 0. 64
45	A 0.02 56	A 0.1 56	A 0.01 56	A 0.01 56	A 0. 56	A 0.01 56	A 0.01 56	A 0. 56
46	A 0.02 21	A 0.1 21	A 0. 21	A 0. 21	A 0.02 21	A 0.01 21	A 0. 21	A 0. 21
47	A 0.02 48	A 0.1 48	A 0. 48	A 0. 48	A 0. 48	A 0.01 48	A 0. 48	A 0. 48
48	A 0.02 72	A 0.11 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0.01 72	A 0.02 72
49	A 0.02 88	A 0.11 88	A 0.01 88	A 0.01 88	A 0. 88	A 0.01 88	A 0.01 88	A 0.02 88
50	A 0.02 80	A 0.11 80	A 0.01 80	A 0.01 80	A 0.02 80	A 0.02 80	A 0.01 80	A 0. 80
51	A 0.04 85	A 0.13 85	A 0.03 85	A 0.03 85	A 0.03 85	A 0.03 85	A 0.03 85	A 0.05 85
52	A 0.02 22	A 0.1 22	A 0. 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
53	A 0.03 79	A 0.11 79	A 0.01 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.02 79
54	A 0.02 70	A 0.1 70	A 0.01 70	A 0.01 70	A 0.01 70	A 0. 70	A 0.01 70	A 0.02 70
55	B 0.04 110	B 0.12 110	B 0.02 110	B 0.02 110	B 0.02 110	B 0.02 110	B 0.02 110	B 0.02 110
56	A 0.02 28	A 0.1 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28	A 0. 28
57	A 0.03 45	A 0.12 68	A 0.02 68	A 0.02 68	A 0.01 68	A 0.02 68	A 0.01 68	A 0.02 68
58	A 0.02 93	B 0.1 222	B 0.01 222	B 0.02 222	B 0.01 222	B 0.02 222	B 0.01 222	B 0.02 222
59	A 0.06 117	A 0.14 119	A 0.04 119	A 0.03 117	A 0.04 119	A 0.03 119	A 0.03 119	A 0.03 117
60	A 0.02 34	A 0.1 34	A 0.01 34	A 0. 34	A 0.01 34	A 0.02 34	A 0. 34	A 0. 34
61	A 0.02 25	A 0.1 25	A 0. 25	A 0. 25	A 0. 25	A 0.02 25	A 0. 25	A 0. 25
62	A 0.03 37	A 0.11 37	A 0.01 37	A 0.01 37	A 0.02 37	A 0. 37	A 0.01 37	A 0.02 37
63	A 0.04 79	A 0.12 79	A 0.02 79	A 0.02 79	A 0.02 79	A 0.03 79	A 0.02 79	A 0.03 79
64	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
65	A 0.02 64	A 0.1 64	A 0.01 64	A 0.01 64	A 0.01 64	A 0.02 64	A 0.01 64	A 0.02 64

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Table 189 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
66	A 0.02 55	A 0.1 55	A 0.01 55	A 0. 55	A 0. 55	A 0.02 55	A 0. 55	A 0.02 55
67	A 0.04 80	A 0.12 80	A 0.02 80	A 0.02 80	A 0.02 80	A 0.02 80	A 0.02 80	A 0.03 80
68	A 0.03 75	A 0.11 75	A 0.01 75	A 0.01 75	A 0.01 75	A 0.02 75	A 0.01 75	A 0.02 75
69	A 0.02 73	A 0.1 73	A 0.01 73	A 0.01 73	A 0.01 73	A 0. 73	A 0.01 73	A 0.02 73
70	A 0.02 59	A 0.11 59	A 0.01 59	A 0.01 59	A 0.01 59	A 0.02 59	A 0.01 59	A 0. 59
71	A 0.05 110	B 0.12 215	B 0.02 215	B 0.02 215	B 0.02 215	B 0.03 215	B 0.01 215	B 0.02 215
72	A 0.02 64	A 0.1 64	A 0.01 64	A 0.01 64	A 0.01 64	A 0.02 64	A 0.01 64	A 0.02 64
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	A 0.02 33	A 0.1 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0. 33	A 0.01 33	A 0.02 33
75	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
76	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
77	A 0.02 39	A 0.11 39	A 0.01 39	A 0.01 39	A 0.01 39	A 0. 39	A 0. 39	A 0. 39
78	A 0.02 17	A 0.11 17	A 0.01 17	A 0.01 17	A 0.01 17	A 0. 17	A 0. 17	A 0. 17
79	A 0.02 36	A 0.11 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36
80	B 0.04 438	B 0.13 438	B 0.03 438	B 0.02 438	B 0.03 438	B 0.02 438	B 0.03 438	B 0.03 438
81	A 0.02 61	A 0.11 61	A 0.01 61	A 0.01 61	A 0.01 61	A 0.02 61	A 0. 61	A 0. 61
82	A 0.02 81	A 0.11 81	A 0.01 81	A 0.01 81	A 0.01 81	A 0.02 81	A 0. 81	A 0. 81
83	B 0.04 227	B 0.12 229	B 0.02 229	B 0.01 227	B 0.01 227	B 0.02 227	B 0.02 227	B 0.02 227
84	B 0.04 344	B 0.12 344	B 0.02 344	B 0.02 344	B 0.02 344	B 0.02 344	B 0.02 344	B 0.02 344
85	B 0.05 600	B 0.12 600	B 0.02 600	B 0.02 600	B 0.02 600	B 0.02 600	B 0.02 600	B 0.03 600
86	B 0.03 250	B 0.12 250	B 0.02 250	B 0.01 250	B 0.01 250	B 0.02 250	B 0.02 250	B 0.03 250
87	B 0.04 523	B 0.12 523	B 0.02 523	B 0.02 523	B 0.02 523	B 0.02 523	B 0.02 523	B 0.03 523
88	B 0.05 615	B 0.12 615	B 0.02 615	B 0.02 615	B 0.02 615	B 0.03 615	B 0.02 615	B 0.03 615
89	A 0.06 144	A 0.14 144	A 0.04 144	A 0.03 144	A 0.04 144	A 0.03 144	A 0.04 144	A 0.05 144
90	A 0.03 100	A 0.12 100	A 0.02 100	A 0.01 100	A 0.02 100	A 0.01 100	A 0.02 100	A 0.02 100
91	A 0.06 173	A 0.14 173	A 0.04 173	A 0.04 173	A 0.03 173	A 0.03 173	F 0 0	A 0.03 173
92	A 0.06 139	A 0.14 139	A 0.04 139	A 0.03 139	A 0.04 139	A 0.05 139	A 0.04 139	A 0.05 139
93	A 0.05 101	A 0.13 101	A 0.03 101	A 0.02 101	A 0.03 101	A 0.03 101	A 0.03 101	A 0.03 101

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Table 189 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
94	B 0.03 190	B 0.12 190	B 0.01 190	B 0.02 189	B 0.02 189	B 0.02 190	B 0.02 190	B 0.02 189
95	A 0.03 136	A 0.12 136	A 0.02 136	A 0.01 136	A 0.02 138	A 0.02 136	A 0.02 136	A 0.02 138
96	A 0.06 190	A 0.14 190	A 0.04 190	A 0.04 190	A 0.04 190	A 0.05 190	A 0.04 190	A 0.05 190
97	A 0.04 121	A 0.12 121	A 0.02 121	A 0.02 121	A 0.02 121	A 0.03 121	A 0.03 121	A 0.03 121
98	A 0.02 41	A 0.1 41	A 0. 41	A 0. 41	A 0.01 41	A 0. 41	A 0.01 41	A 0.02 41
99	A 0.07 187	A 0.14 187	A 0.04 187	A 0.03 187	A 0.05 187	A 0.05 187	A 0.04 187	A 0.05 187
100	A 0.04 116	A 0.13 116	A 0.02 116	A 0.02 116	A 0.03 116	A 0.02 116	A 0.03 116	A 0.05 116
101	A 0.05 96	A 0.13 96	A 0.03 96	A 0.02 96	A 0.03 96	A 0.03 96	A 0.03 96	A 0.03 96
102	B 0.03 216	B 0.11 216	B 0.01 216	B 0.01 216	B 0.01 215	B 0.01 216	B 0.01 216	B 0.02 215
103	B 0.04 270	B 0.12 270	B 0.02 270	B 0.02 270	B 0.02 270	B 0.02 270	B 0.02 270	B 0.02 270
104	B 0.04 318	B 0.12 318	B 0.02 318	B 0.02 318	B 0.02 318	B 0.02 318	B 0.02 318	B 0.03 318
105	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
106	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
107	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
108	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
109	A 0.01 63	A 0.09 63	A 0. 63	A 0. 63	A 0. 63	A 0. 63	A 0. 63	A 0. 63
110	A 0.01 31	A 0.1 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31	A 0. 31
111	A 0.04 240	A 0.12 240	A 0.02 240	A 0.02 240	A 0.02 240	A 0.02 240	A 0.02 240	A 0.05 240
112	A 0.01 45	A 0.1 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45	A 0. 45
113	A 0.01 61	A 0.1 61	A 0. 61	A 0. 61	A 0.01 61	A 0. 61	A 0. 61	A 0. 61
114	A 0.01 30	A 0.1 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
115	A 0.02 100	A 0.1 100	A 0.01 100	A 0.01 100	A 0.01 100	A 0.01 100	A 0.01 100	A 0.02 100
116	A 0.02 44	A 0.1 44	A 0. 44	A 0.01 44	A 0. 44	A 0. 44	A 0. 44	A 0.02 44
117	B 0.03 350	B 0.12 350	B 0.02 350	B 0.02 350	B 0.02 350	B 0.02 350	B 0.02 350	B 0.02 350
118	A 0.04 64	A 0.12 64	A 0.02 64	A 0.02 64	A 0.02 64	A 0.03 64	A 0.03 64	A 0.02 64
119	A 0.05 169	A 0.13 169	A 0.04 169	A 0.03 169	A 0.03 169	A 0.03 169	A 0.03 169	A 0.02 169
120	A 0.02 116	A 0.1 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0.01 116	A 0.02 116
121	A 0.02 68	A 0.1 68	A 0.01 68	A 0. 68	A 0. 68	A 0. 68	A 0. 68	A 0. 68

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Table 189 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
122	A 0.02 126	A 0.1 126	A 0.01 126	A 0.01 126	A 0.01 126	A 0.01 126	A 0.01 126	A 0.02 126
123	A 0.02 47	A 0.11 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0.01 47	A 0. 47
124	A 0.02 60	A 0.1 60	A 0. 60	A 0. 60	A 0.01 60	A 0. 60	A 0. 60	A 0.02 60
125	A 0.04 67	A 0.12 67	A 0.02 67	A 0.02 67	A 0.01 67	A 0.02 67	A 0.03 67	A 0.02 67
126	A 0.04 62	A 0.12 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62	A 0.02 62
127	B 0.02 134	B 0.11 134	B 0.01 134	B 0.01 134	B 0.01 134	B 0.01 134	B 0.01 134	B 0.02 134
128	B 0.03 239	B 0.12 239	B 0.02 239	B 0.02 239	B 0.02 239	B 0.01 239	B 0.01 239	B 0.02 239
129	B 0.04 261	B 0.12 261	B 0.02 261	B 0.02 261	B 0.02 261	B 0.02 261	B 0.02 261	B 0.02 261
130	A 0.05 64	A 0.13 64	A 0.03 64	A 0.02 65	A 0.02 65	A 0.03 64	A 0.03 64	A 0.03 65
131	A 0.05 77	A 0.13 77	A 0.03 77	A 0.02 77	A 0.03 77	A 0.03 77	A 0.03 77	A 0.03 77
132	A 0.05 106	A 0.14 106	A 0.04 106	A 0.03 106	A 0.03 106	A 0.04 106	A 0.03 106	A 0.03 106
133	A 0.05 164	A 0.13 164	A 0.04 164	A 0.03 164	A 0.04 164	A 0.03 164	A 0.04 164	A 0.03 164
134	A 0.02 47	A 0.1 47	A 0. 47	A 0. 47	A 0.01 47	A 0.01 47	A 0. 47	A 0.02 47
135	A 0.03 202	A 0.11 202	A 0.01 202	A 0.02 202	A 0.01 202	A 0.01 202	A 0.01 202	A 0.02 202
136	A 0.03 178	A 0.11 178	A 0.01 178	A 0.01 178	A 0.01 178	A 0.02 178	A 0.01 178	A 0.02 178
137	B 0.02 156	B 0.11 156	B 0.01 156	B 0.01 156	B 0.01 156	B 0. 156	B 0.01 156	B 0.02 156
138	B 0.03 200	B 0.11 200	B 0.02 200	B 0.01 200	B 0.02 200	B 0.02 200	B 0.01 200	B 0.02 200
139	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
140	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
141	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
142	A 0.02 55	A 0.1 55	A 0.01 55	A 0.01 55	A 0.01 55	A 0.02 55	A 0.01 55	A 0. 55
143	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
144	A 0.02 96	A 0.11 96	A 0.01 96	A 0.01 96	A 0.01 96	A 0. 96	A 0.01 96	A 0.02 96
145	A 0.02 86	A 0.1 86	A 0.01 86	A 0.01 86	A 0.01 86	A 0.02 86	A 0.01 86	A 0.02 86
146	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
147	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
148	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
149	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 189 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
150	B 0.07 898	B 0.14 898	B 0.04 898	B 0.03 898	B 0.04 898	B 0.05 898	B 0.04 898	B 0.03 898
151	A 0.02 83	A 0.12 83	A 0.01 83	A 0.01 83	A 0.01 83	A 0. 83	A 0. 83	A 0. 83
152	A 0.02 36	A 0.12 36	A 0.01 36	A 0.01 36	A 0.01 36	A 0. 36	A 0. 36	A 0. 36
153	A 0.05 125	A 0.12 125	A 0.02 125	A 0.02 125	A 0.02 125	A 0.02 125	A 0.01 125	A 0. 125
154	A 0.06 329	A 0.14 329	A 0.04 329	A 0.03 329	A 0.04 329	A 0.03 329	A 0.04 329	A 0.05 329
155	B 0.06 766	B 0.13 766	B 0.03 766	B 0.03 766	B 0.03 766	B 0.03 766	B 0.03 766	B 0.03 766
156	A 0.02 105	A 0.11 105	A 0.01 105	A 0.01 105	A 0.01 105	A 0.02 105	A 0.01 105	A 0. 105
157	A 0.02 33	A 0.11 33	A 0.02 33	A 0.01 33	A 0.02 33	A 0.02 33	A 0.01 33	A 0. 33
158	A 0.02 83	A 0.11 83	A 0.01 83	A 0.01 83	A 0.01 83	A 0. 83	A 0. 83	A 0. 83
159	A 0.05 125	A 0.12 125	A 0.02 125	A 0.02 125	A 0.02 125	A 0.02 125	A 0.01 125	A 0.02 125
160	A 0.04 281	A 0.12 281	A 0.02 281	A 0.02 281	A 0.02 281	A 0.02 281	A 0.02 281	A 0.03 281
161	A 0.03 233	A 0.11 233	A 0.02 233	A 0.01 233	A 0.02 233	A 0.02 233	A 0.02 233	A 0.02 233
162	B 0.04 438	B 0.12 438	B 0.02 438	B 0.02 438	B 0.02 438	B 0.02 438	B 0.02 438	B 0.03 438
163	A 0.03 50	A 0.12 50	A 0.02 50	A 0.02 50	A 0.02 50	A 0.02 50	A 0.03 50	A 0.02 50
164	A 0.04 65	A 0.13 65	A 0.04 65	A 0.02 65	A 0.03 65	A 0.03 65	A 0.04 65	A 0.03 65
165	A 0.05 102	A 0.13 102	A 0.03 102	A 0.02 102	A 0.03 102	A 0.03 102	A 0.04 102	A 0.03 102
166	A 0.06 175	A 0.14 175	A 0.04 175	A 0.03 175	A 0.04 175	A 0.03 175	A 0.04 175	A 0.03 175
167	A 0.05 112	A 0.13 112	A 0.03 112	A 0.02 112	A 0.03 112	A 0.03 112	A 0.04 112	A 0.03 112
168	A 0.03 52	A 0.11 52	A 0.02 52	A 0.01 52	A 0.02 52	A 0.02 52	A 0.03 52	A 0.02 52
169	A 0.05 100	A 0.14 100	A 0.04 100	A 0.03 103	A 0.04 103	A 0.03 103	A 0.04 100	A 0.03 103
170	A 0.07 247	A 0.14 247	A 0.04 247	A 0.03 247	A 0.04 247	A 0.04 247	A 0.04 247	A 0.05 247
171	B 0.08 795	B 0.16 795	B 0.06 795	B 0.05 795	B 0.06 795	B 0.06 795	B 0.05 795	B 0.06 795
172	A 0.02 53	A 0.1 53	A 0. 53	A 0.01 53	A 0.01 53	A 0.02 53	A 0.01 53	A 0. 53
173	A 0.03 147	A 0.11 147	A 0.01 147	A 0.01 147	A 0.01 147	A 0.02 147	A 0.02 147	A 0.02 147
174	B 0.04 378	B 0.12 378	B 0.02 379	B 0.02 378	B 0.02 378	B 0.02 379	B 0.02 378	B 0.02 378
175	A 0.04 66	A 0.12 66	A 0.02 66	A 0.02 66	A 0.02 66	A 0.02 66	A 0.03 66	A 0.02 67
176	A 0.05 90	A 0.13 90	A 0.03 90	A 0.02 90	A 0.04 90	A 0.04 90	A 0.04 90	A 0.03 90
177	A 0.05 98	A 0.14 98	A 0.04 98	A 0.03 98	A 0.04 98	A 0.04 98	A 0.04 98	A 0.03 98

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Table 189 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
178	A 0.02 53	A 0.1 53	A 0.01 53	A 0. 53	A 0. 53	A 0.02 53	A 0.01 53	A 0.02 53
179	A 0.04 50	A 0.12 50	A 0.02 50	A 0.02 50	A 0.02 50	A 0.02 50	A 0.03 50	A 0.02 50
180	A 0.03 173	A 0.11 173	A 0.02 173	A 0.01 173	A 0.02 173	A 0.02 173	A 0.02 174	A 0.02 173
181	B 0.04 348	B 0.12 347	B 0.02 347	B 0.02 347	B 0.02 347	B 0.02 348	B 0.02 347	B 0.02 348
182	B 0.04 447	B 0.12 447	B 0.02 447	B 0.02 447	B 0.02 447	B 0.02 447	B 0.02 447	B 0.03 447
183	A 0.04 82	A 0.12 82	A 0.02 82	A 0.02 82	A 0.02 82	A 0.03 82	A 0.04 82	A 0.03 82
184	A 0.05 90	A 0.14 90	A 0.04 90	A 0.02 90	A 0.04 90	A 0.03 90	A 0.04 90	A 0.03 90
185	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
186	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
187	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.188 $7_Inverse_hyperbolic_functions\7.3aInversehyperbolicsecant\7.3.1u(a+barcsech(cx))^n$

Table 190: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.2 151	A 0.26 151	A 0.15 151	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	A 0.08 136	A 0.35 136	A 0.04 136	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
3	A 0.06 77	A 0.14 77	A 0.03 77	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	A 0.07 146	A 0.15 146	A 0.04 146	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	A 0.14 152	A 0.21 152	A 0.12 152	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	A 0.07 98	A 0.14 98	A 0.04 98	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	A 0.08 138	A 0.14 138	A 0.04 138	A 0.04 138	A 0.03 138	A 0.04 138	A 0.04 138	A 0.03 138
8	A 0.05 118	A 0.13 118	A 0.03 118	A 0.02 118	A 0.03 118	A 0.02 118	A 0.03 118	A 0.02 118
9	A 0.05 112	A 0.14 112	A 0.03 112	A 0.03 112	A 0.03 112	A 0.03 112	A 0.03 112	A 0.02 112
10	A 0.05 135	A 0.13 135	A 0.03 135	A 0.03 135	A 0.03 135	A 0.03 135	A 0.03 135	A 0.03 135
11	A 0.09 250	A 0.34 250	A 0.04 250	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 190 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
12	B 0.05 226	B 0.14 226	B 0.03 226	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	B 0.08 227	B 0.16 227	B 0.05 227	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
14	A 0.05 283	A 0.14 282	A 0.03 283	A 0.03 283	A 0.03 283	A 0.03 283	A 0.04 282	A 0.03 282
15	A 0.05 124	A 0.14 125	A 0.03 125	A 0.02 125	A 0.03 125	A 0.03 124	A 0.03 124	A 0.02 124
16	A 0.21 288	A 0.24 288	A 0.12 288	A 0.35 288	A 0.11 288	A 0.12 288	A 0.11 288	A 0.12 288
17	B 0.13 1632	B 0.22 1632	B 0.1 1632	B 0.08 1632	B 0.09 1632	B 0.11 1632	B 0.12 1634	B 0.12 1634
18	A 0.05 114	A 0.15 114	A 0.04 114	A 0.03 114	A 0.04 114	A 0.03 114	A 0.03 114	A 0.03 114
19	A 0.18 170	A 0.44 170	A 0.12 170	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	A 0.05 300	A 0.14 300	A 0.04 300	A 0.03 300	A 0.03 300	A 0.03 300	A 0.03 300	A 0.03 300
21	A 0.31 252	A 0.56 252	A 0.23 252	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	C 0.25 513	C 0.29 513	C 0.15 513	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	C 0.43 639	C 0.64 639	C 0.32 643	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	C 4.1 2016	C 3.43 2016	C 2.62 2018	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	C 0.83 1870	C 0.78 1870	C 1.6 1871	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	B 0.14 3343	B 0.21 3331	B 0.12 3343	B 0.08 3331	B 0.08 3331	B 0.09 3331	B 0.09 3331	B 0.11 3331
27	B 0.08 3301	B 0.18 3289	B 0.07 3301	B 0.05 3289	B 0.07 3289	B 0.07 3289	B 0.07 3289	B 0.08 3289
28	C 2.21 3455	C 1.88 3453	C 2.3 3457	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.189 7_Inverse_hyperbolic_functions\7.3aInversehyperbolicsecant\7.3.2Inversehyperbolicsecantfunctions

Table 191: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.04	250	A	0.04	250	A	0.04	250	A	0.02	250	A	0.03	250	A	0.03	250	A	0.04	250	A	0.02	250
2	A	0.04	190	A	0.04	189	A	0.04	189	A	0.02	189	A	0.03	189	A	0.03	190	A	0.04	190	A	0.02	190
3	B	0.09	1597	B	0.09	1597	B	0.08	1597	B	0.07	1597	B	0.06	1597	B	0.06	1597	B	0.07	1597	B	0.08	1597
4	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
5	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
6	A	0.06	54	A	0.13	54	A	0.03	54	A	0.03	54	A	0.03	54	A	0.02	54	A	0.03	54	A	0.03	54
7	A	0.04	42	A	0.12	42	A	0.02	42	A	0.02	42	A	0.02	42	A	0.03	42	A	0.02	42	A	0.03	42
8	A	0.04	116	A	0.12	116	A	0.02	116	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	A	0.03	132	A	0.12	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.02	132	A	0.02	132
10	A	0.07	152	A	0.16	152	A	0.04	152	A	0.03	152	A	0.04	152	A	0.04	152	A	0.05	152	A	0.06	152
11	A	0.05	60	A	0.12	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60	A	0.02	60
12	A	0.04	136	A	0.12	136	A	0.02	136	A	0.02	136	A	0.02	136	A	0.03	136	A	0.03	136	A	0.02	136
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	A	0.03	153	A	0.11	153	A	0.01	153	A	0.01	153	A	0.01	153	A	0.02	153	A	0.01	153	A	0.02	153
15	C	0.24	531	C	0.25	531	C	0.14	531	C	0.28	531	C	0.1	531	C	0.1	531	C	0.1	531	C	0.12	531
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	C	0.09	117	C	0.16	117	C	0.05	117	C	0.08	117	C	0.06	117	C	0.05	116	C	0.05	117	C	0.06	117
18	C	0.08	61	C	0.15	61	C	0.05	61	C	0.04	61	C	0.05	61	C	0.05	61	C	0.05	61	C	0.03	61
19	A	0.02	36	A	0.1	36	A	0.01	36	A	0.01	36	A	0.01	36	A	0.	36	A	0.01	36	A	0.02	36
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

2.190 $7_Inverse_hyperbolic_functions\7.3bInversehyperboliccosecant\7.3.1u(a+barccsch(cx))^n$

Table 192: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	A 0.06 83	A 0.12 83	A 0.03 83	A 0.02 83	A 0.01 83	A 0. 83	A 0.02 83	A 0.02 83
2	A 0.02 65	A 0.11 65	A 0.01 65	A 0. 65	A 0.01 65	A 0. 65	A 0.01 65	A 0.02 65
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	A 0.03 83	A 0.11 83	A 0.01 83	A 0.01 83	A 0.01 83	A 0. 83	A 0.01 83	A 0.02 83
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0.03 140	A 0.12 140	A 0.01 140	A 0.02 140	A 0.01 140	A 0.01 140	A 0.02 140	A 0.02 140
14	A 0.03 152	A 0.11 152	A 0.01 152	A 0.01 152	A 0.01 152	A 0.01 152	A 0.01 152	A 0.02 152
15	A 0.03 189	A 0.12 189	A 0.02 189	A 0.02 189	A 0.01 189	A 0.01 189	A 0.01 189	A 0.02 189
16	A 0.04 223	A 0.12 223	A 0.02 223	A 0.02 223	A 0.02 223	A 0.02 223	A 0.02 223	A 0.02 223
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 192 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.191 7_Inverse_hyperbolic_functions\7.3bInversehyperboliccosecant\7.3.2Inversehyperboliccosecantfunctions

Table 193: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.04 227	A 0.12 227	A 0.02 227	A 0.02 227	A 0.01 226	A 0.01 227	A 0.02 226	A 0.02 226
2	A 0.02 38	A 0.1 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38	A 0. 38
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	B 0.04 109	B 0.12 109	B 0.01 109	B 0.01 109	B 0.01 107	B 0.01 109	B 0.01 109	B 0. 109
7	B 0.02 173	B 0.11 173	B 0.01 173	B 0. 173	B 0.01 173	B 0. 173	B 0.01 173	B 0. 173
8	A 0.02 52	A 0.11 52	A 0.01 52	A 0.01 52	A 0.01 52	A 0. 52	A 0.01 52	A 0. 52
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	C 0.04 104	C 0.12 104	C 0.01 104	C 0.01 104	C 0.01 104	C 0.01 104	C 0.02 104	C 0.02 104
11	B 0.02 120	B 0.11 120	B 0.01 120	B 0.01 120	B 0.01 120	B 0.01 119	B 0.01 120	B 0.02 120
12	B 0.07 85	B 0.14 85	B 0.04 85	B 0.03 85	B 0.03 85	B 0.03 85	B 0.03 85	B 0.05 85
13	A 0.05 63	A 0.12 63	A 0.02 63	A 0.02 63	A 0.01 63	A 0.01 63	A 0.01 63	A 0.02 63

2.192 8_Special_functions\8.1Errorfunctions

Table 194: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.05	65	A	0.1	65	A	0.03	65	A	0.04	65	A	0.	65	A	0.03	65	A	0.01	65	A	0.02	65
2	A	0.02	47	A	0.1	47	A	0.01	47	A	0.	47	A	0.	47	A	0.	47	A	0.	47	A	0.	47
3	A	0.02	50	A	0.1	50	A	0.01	50	A	0.	50	A	0.01	50	A	0.	50	A	0.	50	A	0.	50
4	A	0.02	90	A	0.11	90	A	0.01	90	A	0.	90	A	0.01	90	A	0.01	90	A	0.	90	A	0.	90
5	A	0.02	72	A	0.1	72	A	0.01	72	A	0.	72	A	0.	72	A	0.	72	A	0.	72	A	0.	72
6	A	0.02	26	A	0.1	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26	A	0.	26
7	A	0.02	131	A	0.11	131	A	0.01	131	A	0.01	131	A	0.01	131	A	0.02	131	A	0.01	131	F	0	0
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
10	A	0.39	67	A	0.44	67	A	0.37	67	A	0.46	67	A	0.33	67	A	0.32	67	A	0.27	67	F	0	0
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
17	A	0.14	119	A	0.22	119	A	0.12	119	A	0.1	119	A	0.12	119	A	0.11	119	A	0.1	119	F	0	0
18	A	0.43	134	A	0.48	134	A	0.36	134	A	0.32	134	A	0.37	134	A	0.36	134	A	0.31	134	F	0	0
19	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
20	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
21	A	0.03	65	A	0.11	65	A	0.	65	A	0.	65	A	0.	65	A	0.	65	A	0.	65	A	0.	65
22	A	0.02	29	A	0.1	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29	A	0.	29
23	B	0.02	729	B	0.12	729	B	0.01	729	B	0.01	729	B	0.01	729	B	0.02	729	B	0.01	729	B	0.	729
24	B	0.02	428	B	0.11	428	B	0.01	428	B	0.	428	B	0.	428	B	0.	428	B	0.	428	B	0.	428
25	A	0.02	122	A	0.11	122	A	0.	122	A	0.	125	A	0.	125	A	0.02	125	A	0.	125	A	0.02	125
26	A	0.01	33	A	0.1	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33	A	0.	33
27	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0

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Table 194 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0.14 376	A 0.23 376	A 0.12 376	A 0.1 379	A 0.12 379	A 0.11 379	A 0.1 379	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	B 0.39 175	B 0.47 175	B 0.35 175	B 0.32 175	B 0.36 175	B 0.36 175	B 0.3 175	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	A 0.02 65	A 0.11 65	A 0.02 65	C 0.02 68	C 0.01 68	C 0. 68	C 0. 68	C 0. 68
40	A 0.02 64	A 0.1 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64	A 0. 64
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
47	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
55	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 194 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
57	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.193 8_Special_functions\8.2Fresnelintegralfunctions

Table 195: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.05 107	A 0.13 107	A 0.02 107	A 0.01 107	A 0.02 107	A 0.03 107	A 0.03 107	A 0. 107
2	A 0.03 54	A 0.11 54	A 0.01 54	A 0.01 54	A 0.01 54	A 0. 54	A 0.01 54	A 0.02 54
3	A 0.02 27	A 0.11 27	A 0.01 27	A 0.01 27	A 0. 27	A 0.02 27	A 0.01 27	A 0. 27
4	A 0.03 65	A 0.11 65	A 0.01 65	A 0.01 65	A 0.01 65	A 0.02 65	A 0.01 65	A 0. 65
5	A 0.03 93	A 0.12 93	A 0.02 93	A 0.01 93	A 0.01 93	A 0.01 93	A 0.01 93	A 0. 93
6	A 0.04 400	A 0.14 400	A 0.02 400	A 0.02 400	A 0.02 400	A 0.02 400	A 0.02 400	B 0.02 663
7	A 0.03 108	A 0.12 108	A 0.02 108	A 0.01 109	A 0.01 109	A 0. 109	A 0.01 109	A 0. 121
8	A 0.02 33	A 0.1 33	A 0.01 33	A 0. 33	A 0. 33	A 0.02 33	A 0. 33	A 0. 33
9	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
13	A 0.02 12	A 0.1 12	A 0.01 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12	A 0. 12
14	A 0.02 18	A 0.1 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18	A 0. 18
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
17	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 195 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
19	A 0.08 212	A 0.16 212	A 0.06 211	A 0.04 211	A 0.03 211	A 0.02 211	A 0.02 211	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	A 0.03 97	A 0.12 97	A 0.02 97	A 0.02 97	A 0.01 97	A 0.02 97	A 0. 97	A 0. 97
23	A 0.02 81	A 0.1 81	A 0.01 81	A 0. 81	A 0. 81	A 0. 81	A 0.01 81	A 0. 81
24	A 0.03 54	A 0.11 54	A 0.02 54	A 0.01 54	A 0. 54	A 0. 54	A 0. 54	A 0. 54
25	A 0.1 23	A 0.15 23	A 0.07 23	A 0.04 23	A 0.05 23	A 0.06 23	A 0.04 23	A 0.03 23
26	A 0.02 28	A 0.11 28	A 0.01 28	A 0.01 28	A 0. 28	A 0. 28	A 0.01 28	A 0.02 28
27	A 0.03 49	A 0.11 49	A 0.01 49	A 0.01 49	A 0.01 49	A 0.02 49	A 0.01 49	A 0. 49
28	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	A 0.02 18	A 0.11 18	A 0.01 18	A 0.01 18	A 0. 18	A 0. 18	A 0. 18	A 0.02 18
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.194 8_Special_functions\8.3Exponentialintegralfunctions

Table 196: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	B 0.02 48	B 0.13 48	B 0.01 48	B 0.01 48	B 0. 46	B 0.01 46	B 0.02 46	B 0. 46
2	A 0.02 36	A 0.1 36	A 0. 36	A 0. 36	A 0. 34	A 0. 34	A 0. 34	A 0. 34
3	B 0.02 65	B 0.1 65	B 0. 65	B 0. 65	B 0. 64	B 0. 64	B 0. 64	B 0. 64
4	B 0.06 51	B 0.14 51	B 0.02 51	B 0.04 51	B 0.03 51	B 0.02 51	B 0.01 51	B 0.02 51
5	B 0.25 141	B 0.24 141	B 0.14 141	B 0.11 141	B 0.11 141	B 0.12 141	B 0.09 141	B 0.14 141
6	B 0.16 92	B 0.22 92	B 0.14 92	B 0.11 92	B 0.12 92	B 0.12 92	B 0.11 92	B 0.17 92
7	B 0.05 76	B 0.13 76	B 0.02 76	B 0.02 76	B 0.02 76	B 0.02 76	B 0.02 76	B 0.03 76
8	A 0.05 28	A 0.11 28	A 0.02 28	A 0.01 28	A 0.02 28	A 0. 28	A 0.01 28	A 0. 28
9	A 0.03 30	A 0.11 30	A 0.01 30	A 0.01 30	A 0.01 30	A 0.01 30	A 0.01 30	A 0.02 30
10	A 0.05 40	A 0.13 40	A 0.02 40	A 0.02 40	A 0.02 40	A 0.02 40	A 0.02 40	A 0.03 40
11	B 0.1 77	B 0.17 77	B 0.07 77	B 0.06 77	B 0.07 77	B 0.06 77	B 0.06 77	B 0.06 77
12	B 0.03 60	B 0.12 60	B 0.02 60	B 0.01 60	B 0.02 60	B 0.02 60	B 0.01 60	B 0.02 60
13	A 0.09 49	A 0.15 49	A 0.06 49	A 0.04 49	A 0.03 49	A 0.05 49	A 0.07 49	A 0.02 49
14	A 0.04 49	A 0.13 49	A 0.03 49	A 0.02 49	A 0.03 49	A 0.02 49	A 0.02 49	A 0.02 49
15	A 0.04 82	A 0.12 82	A 0.02 88	A 0.02 88	A 0.02 88	A 0.02 88	A 0.02 88	A 0.02 88
16	C 0.04 63	C 0.12 63	C 0.02 63	C 0.02 63	C 0.02 63	C 0.02 63	C 0.02 63	C 0.03 63
17	C 0.06 114	C 0.13 114	C 0.03 121	C 0.02 121	C 0.03 121	C 0.03 121	C 0.03 121	C 0.03 121
18	A 0.04 312	A 0.11 312	A 0.01 312	A 0.02 312	A 0.02 304	A 0.02 304	A 0.01 304	A 0.02 304
19	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
20	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
21	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
22	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
26	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 196 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0.03 32	A 0.11 32	A 0.02 32	A 0.01 32	A 0. 32	A 0.02 32	A 0.01 32	A 0. 32
29	A 0.04 58	A 0.14 58	A 0.04 58	A 0.02 58	A 0.03 58	A 0.01 58	A 0.07 58	A 0.03 58
30	A 0.02 55	A 0.1 55	A 0.01 55	A 0. 55	A 0. 55	A 0. 55	A 0. 55	F 0 0
31	A 0.02 160	A 0.1 160	A 0.01 160	A 0. 160	A 0. 160	A 0. 160	A 0. 160	A 0. 222
32	A 0.04 78	A 0.11 78	A 0.01 78	A 0.01 78	A 0.01 78	A 0.01 78	A 0.01 78	A 0.02 78
33	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
34	A 0.02 46	A 0.1 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	A 0. 46	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	A 0.04 9	A 0.12 9	A 0.02 9	A 0.02 9	A 0.02 9	A 0.02 9	A 0.02 9	A 0.05 9
41	A 0.06 41	A 0.14 41	A 0.04 41	A 0.04 41	A 0.04 41	A 0.05 41	A 0.03 41	F 0 0
42	A 0.04 20	A 0.11 20	A 0.01 20	A 0.01 20	A 0.01 20	A 0. 20	A 0.02 20	A 0. 20

2.195 8_Special_functions\8.4Trigintegralfunctions

Table 197: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	C 0.12 37	C 0.19 37	C 0.08 40	C 0.06 40	C 0.06 40	C 0.05 40	C 0.06 40	C 0.02 40
2	A 0.02 56	A 0.1 56	A 0.01 56	A 0.01 56	A 0. 56	A 0.02 56	A 0. 56	A 0. 56
3	A 0.02 48	A 0.1 48	A 0.02 48	A 0.01 48	A 0. 48	A 0. 48	A 0. 48	A 0. 48
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	A 0.02 157	A 0.11 157	A 0.01 157	A 0.01 157	A 0.01 157	A 0. 157	A 0. 157	A 0. 197

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Table 197 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	A 0.05 138	A 0.13 138	A 0.04 138	A 0.02 138	A 0.01 127	A 0.01 127	A 0.01 127	F 0 0
9	A 0.04 105	A 0.12 105	A 0.03 105	A 0.02 105	A 0.01 95	A 0.02 95	A 0.01 95	F 0 0
10	A 0.07 280	A 0.15 280	A 0.05 280	A 0.03 280	A 0.01 280	A 0.01 280	A 0.01 280	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.06 84	A 0.14 84	A 0.04 84	A 0.02 84	A 0.01 84	A 0.02 84	A 0. 84	F 0 0
13	A 0.02 154	A 0.11 154	A 0.01 154	A 0.01 154	A 0.01 154	A 0.02 154	A 0. 154	A 0. 194
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	A 0.04 45	A 0.12 45	A 0.03 45	A 0.01 45	A 0.01 45	A 0.01 45	A 0. 45	F 0 0
17	A 0.05 107	A 0.14 107	A 0.03 107	A 0.02 107	A 0.01 97	A 0. 97	A 0.01 97	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	A 0.02 22	A 0.1 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22	F 0 0
20	A 0.05 136	A 0.13 136	A 0.03 136	A 0.02 136	A 0.01 126	A 0. 126	A 0.01 126	F 0 0
21	A 0.04 106	A 0.13 106	A 0.03 106	A 0.02 106	A 0.01 106	A 0. 106	A 0.01 106	F 0 0
22	A 0.08 168	A 0.16 168	A 0.06 168	A 0.02 168	A 0.01 168	A 0. 168	A 0.01 168	F 0 0
23	B 0.11 1208	B 0.19 1208	B 0.08 1208	B 0.04 1208	B 0.02 1208	B 0.03 1208	B 0.02 1208	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.196 8_Special_functions\8.5Hyperbolicintegralfunctions

Table 198: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	C 0.04 37	C 0.14 37	C 0.04 40	C 0.02 40	C 0.02 40	C 0.03 40	C 0.05 40	C 0.02 40
2	A 0.02 56	A 0.1 56	A 0.01 56	A 0.01 56	A 0. 56	A 0. 56	A 0. 56	A 0. 56

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Table 198 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
3	A 0.02 48	A 0.1 48	A 0.01 48	A 0.01 48	A 0.01 48	A 0.02 48	A 0. 48	A 0.02 48
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
6	A 0.02 156	A 0.11 156	A 0.01 156	A 0.01 156	A 0.01 156	A 0.02 156	A 0. 156	A 0. 196
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	A 0.04 126	A 0.12 126	A 0.02 126	A 0.02 126	A 0.01 126	A 0.02 126	A 0.01 126	F 0 0
9	A 0.04 95	A 0.12 95	A 0.02 95	A 0.02 95	A 0.01 95	A 0.02 95	A 0.01 95	F 0 0
10	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
12	A 0.04 84	A 0.12 84	A 0.02 84	A 0.02 84	A 0.01 84	A 0. 84	A 0. 84	F 0 0
13	A 0.02 156	A 0.11 156	A 0.01 156	A 0.01 156	A 0.01 156	A 0.02 156	A 0. 156	A 0. 196
14	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
15	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
16	A 0.04 58	A 0.12 58	A 0.02 58	A 0.01 58	A 0.01 58	A 0.01 58	A 0. 58	F 0 0
17	A 0.02 68	A 0.1 68	A 0.01 68	A 0.01 68	A 0. 68	A 0. 68	A 0. 68	F 0 0
18	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
19	A 0.02 33	A 0.11 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0. 33	A 0. 33	F 0 0
20	A 0.05 104	A 0.12 104	A 0.03 104	A 0.02 104	A 0.01 104	A 0.02 104	A 0. 104	F 0 0
21	A 0.05 106	A 0.12 106	A 0.03 106	A 0.02 106	A 0.01 106	A 0.01 106	A 0.01 106	F 0 0
22	A 0.05 171	A 0.14 171	A 0.03 171	A 0.02 171	A 0.01 171	A 0.02 171	A 0.01 171	F 0 0
23	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
24	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
25	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.197 8_Special_functions\8.6Gammafunctions

Table 199: Breakdown of results for each integral

	2017.3		2016.2		2015.2		18.02		17.02		16.02		14.0		12.0	
#	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size	grade	cpu size
1	A	0.01 48	A	0.1 48	A	0. 48	A	0. 48	A	0. 46	A	0. 46	A	0. 46	A	0. 46
2	A	0.01 36	A	0.1 36	A	0. 36	A	0. 36	A	0. 34	A	0.01 34	A	0. 34	A	0. 34
3	B	0.01 65	B	0.1 65	B	0. 65	B	0. 65	B	0. 64	B	0.01 64	B	0. 64	B	0. 64
4	A	0.02 32	A	0.1 32	A	0. 32	A	0. 32	A	0.01 32	A	0. 32	A	0. 32	A	0. 32
5	A	0.02 8	A	0.1 8	A	0. 8	A	0. 8	A	0. 8	A	0. 8	A	0. 8	A	0. 8
6	A	0.02 53	A	0.1 53	A	0. 53	A	0. 53	A	0. 53	A	0. 53	A	0. 53	A	0. 53
7	A	0.01 24	A	0.1 24	A	0. 24	A	0. 24	A	0. 24	A	0.02 24	A	0. 24	A	0. 24
8	A	0.02 16	A	0.1 16	A	0. 16	A	0. 16	A	0.01 16	A	0. 16	A	0. 16	A	0.02 16
9	A	0.01 24	A	0.1 24	A	0. 24	A	0. 24	A	0.01 24	A	0. 24	A	0. 24	A	0. 24
10	A	0.02 16	A	0.1 16	A	0. 16	A	0.01 16	A	0.01 16	A	0.02 16	A	0.01 16	A	0. 16
11	B	0.03 55	B	0.12 55	B	0.02 55	B	0.01 55	B	0.02 55	B	0.02 55	B	0.01 55	B	0.02 55
12	B	0.05 141	B	0.14 141	B	0.03 141	B	0.02 141	B	0.03 141	B	0.03 141	B	0.03 141	B	0.03 141
13	A	0.06 85	A	0.14 85	A	0.04 85	A	0.03 85	A	0.05 85	A	0.03 85	A	0.03 85	A	0.05 85
14	A	0.02 80	A	0.1 80	A	0.01 80	A	0.01 80	A	0. 80	A	0.02 80	A	0. 80	A	0. 80
15	A	0.02 49	A	0.1 49	A	0. 49	A	0. 49	A	0. 49	A	0. 49	A	0. 49	A	0.02 49
16	A	0.04 105	A	0.11 105	A	0.01 105	A	0.01 105	A	0.01 105	A	0.02 105	A	0.01 105	A	0.02 105
17	A	0.02 77	A	0.11 77	A	0.01 77	A	0.01 77	A	0.01 77	A	0.01 77	A	0.01 77	A	0.02 77
18	C	0.19 39	C	0.28 39	C	0.12 39	C	0.09 39	C	0.09 39	C	0.08 39	C	0.1 39	C	0.09 39
19	C	0.07 69	C	0.14 69	C	0.05 69	C	0.02 69	C	0.04 69	C	0.03 69	C	0.05 69	C	0.02 69
20	C	0.04 64	C	0.12 64	C	0.02 64	C	0.02 64	C	0.02 64	C	0.02 64	C	0.02 64	C	0.02 64
21	C	0.04 54	C	0.12 54	C	0.02 54	C	0.02 54	C	0.03 54	C	0.03 54	C	0.03 54	C	0.02 54
22	A	0.03 60	A	0.12 60	A	0.02 60	A	0.02 60	A	0.02 60	A	0.02 60	A	0.02 60	A	0.02 60
23	A	0.02 30	A	0.1 30	A	0. 30	A	0. 30	A	0. 36	A	0.02 36	A	0. 36	A	0. 36
24	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0	F	0 0
25	A	0.04 196	A	0.11 196	A	0.01 196	A	0.01 196	A	0.01 185	A	0. 185	A	0.01 185	A	0. 185
26	A	0.02 104	A	0.1 104	A	0.01 104	A	0.01 104	A	0.01 104	A	0.02 104	A	0. 104	A	0. 104
27	A	0.02 58	A	0.1 58	A	0. 58	A	0. 58	A	0.01 58	A	0. 58	A	0. 58	A	0. 58

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Table 199 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	A 0.01 15	A 0.1 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15	A 0. 15
29	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	A 0.02 88	A 0.1 88	A 0.01 88	A 0.01 88	A 0.01 88	A 0.02 88	A 0.01 88	A 0. 88
34	A 0.02 131	A 0.1 131	A 0.01 131	A 0.01 131	A 0.01 131	A 0.02 131	A 0. 131	A 0. 131
35	A 0.02 215	A 0.11 215	A 0.01 215	A 0.01 215	A 0.01 215	A 0.01 215	A 0.01 215	A 0.02 215
36	C 0.07 142	C 0.13 142	C 0.04 142	C 0.03 142	C 0.03 142	C 0.03 142	C 0.03 142	C 0.03 142
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	A 0.01 97	A 0.02 97	A 0.12 97	A 0.02 97
46	A 0.04 16	A 0.12 16	A 0.02 16	A 0. 16	A 0.03 16	A 0.02 16	A 0.01 16	A 0. 16

2.198 8_Special_functions\8.7Zetafunction

Table 200: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu siz
1	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
2	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

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Table 200 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
3	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
4	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
5	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.199 8_Special_functions\8.8Polylogarithmfunction

Table 201: Breakdown of results for each integral

	2017.3	2016.2	2015.2	18.02	17.02	16.02	14.0	12.0
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
1	A 0.02 54	A 0.12 54	A 0.01 54	A 0.01 54	A 0. 54	A 0.02 54	A 0.02 54	A 0. 54
2	A 0.02 45	A 0.12 45	A 0.02 45	A 0.01 45	A 0.02 45	A 0.02 45	A 0.01 45	A 0.02 45
3	C 0.05 85	C 0.12 85	C 0.02 85	C 0.02 85	C 0.02 84	C 0.02 84	C 0.02 84	C 0.02 84
4	C 0.09 195	C 0.42 195	C 0.03 195	C 0.02 195	C 0.03 194	C 0.03 194	C 0.03 194	C 0.03 194
5	C 0.11 376	C 0.33 376	C 0.05 376	C 0.03 376	C 0.05 375	C 0.05 434	C 0.04 434	C 0.06 434
6	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
7	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
8	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
9	C 0.03 687	C 0.12 687	C 0.01 687	C 0.01 687	C 0.01 683	C 0.02 683	C 0.01 683	C 0.02 683
10	A 0.25 56	A 0.28 56	A 0.18 56	A 0.15 56	A 0.2 56	A 0.16 56	A 0.14 56	A 0.81 56
11	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0

2.200 8_Special_functions\8.9Productlogarithmfunction

Table 202: Breakdown of results for each integral

	2017.3			2016.2			2015.2			18.02			17.02			16.02			14.0			12.0		
#	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size	grade	cpu	size
1	A	0.04	56	A	0.21	56	A	0.01	56	A	0.01	56	A	0.01	56	A	0.02	56	A	0.	56	A	0.	56
2	A	0.03	46	A	0.2	46	A	0.01	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46	A	0.	46
3	A	0.03	32	A	0.2	32	A	0.01	32	A	0.01	32	A	0.01	32	A	0.02	32	A	0.	32	A	0.02	32
4	A	0.03	63	A	0.2	63	A	0.01	63	A	0.01	63	A	0.01	63	A	0.	63	A	0.	63	A	0.	63
5	A	0.09	128	A	0.21	128	A	0.02	128	A	0.01	128	A	0.01	128	A	0.	128	A	0.01	128	A	0.	128
6	A	0.03	253	A	0.2	253	A	0.01	253	A	0.01	253	A	0.01	253	A	0.02	253	A	0.	253	A	0.	253
7	A	0.03	125	A	0.2	125	A	0.01	125	A	0.01	125	A	0.01	125	A	0.	125	A	0.	125	A	0.	125
8	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
9	A	0.03	332	A	0.2	332	A	0.01	332	A	0.01	332	A	0.01	332	A	0.02	332	A	0.01	332	A	0.02	332
10	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
11	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
12	A	0.08	575	A	0.22	575	A	0.03	575	A	0.02	575	A	0.02	575	A	0.03	575	A	0.02	575	A	0.02	575
13	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
14	B	0.04	489	B	0.21	489	B	0.02	489	B	0.02	489	B	0.02	489	B	0.02	489	B	0.01	489	B	0.02	489
15	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0	F	0	0
16	A	0.03	44	A	0.2	44	A	0.	44	A	0.01	44	A	0.01	44	A	0.	44	A	0.	44	A	0.02	44
17	A	0.02	23	A	0.19	23	A	0.	23	A	0.	23	A	0.01	23	A	0.	23	A	0.	23	A	0.	23
18	A	0.03	43	A	0.2	43	A	0.01	43	A	0.01	43	A	0.01	43	A	0.	43	A	0.	43	A	0.02	43
19	A	0.03	72	A	0.2	72	A	0.01	72	A	0.01	72	A	0.01	72	A	0.	72	A	0.01	72	A	0.	72
20	A	0.03	60	A	0.19	60	A	0.01	60	A	0.01	60	A	0.01	60	A	0.	60	A	0.	60	A	0.02	60
21	A	0.03	20	A	0.19	20	A	0.01	20	A	0.	20	A	0.	20	A	0.02	20	A	0.	20	A	0.02	20
22	A	0.03	34	A	0.2	34	A	0.01	34	A	0.01	34	A	0.01	34	A	0.02	34	A	0.01	34	A	0.	34
23	A	0.04	48	A	0.2	48	A	0.01	48	A	0.01	48	A	0.01	48	A	0.	48	A	0.01	48	A	0.02	48
24	A	0.03	20	A	0.2	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20	A	0.	20
25	A	0.03	30	A	0.22	30	A	0.01	30	A	0.01	30	A	0.01	30	A	0.02	30	A	0.01	30	A	0.02	30
26	A	0.08	147	A	0.21	147	A	0.02	147	A	0.01	147	A	0.01	147	A	0.02	147	A	0.01	147	A	0.02	147
27	A	0.02	26	A	0.11	26	A	0.01	26	A	0.01	26	A	0.01	26	A	0.	26	A	0.01	26	A	0.02	26

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Table 202 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
28	B 0.06 252	B 0.21 252	B 0.02 252	B 0.02 252	B 0.01 252	B 0. 252	B 0.01 252	B 0.02 252
29	A 0.03 27	A 0.2 27	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
30	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
31	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
32	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
33	A 0.01 32	A 0.1 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
34	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
35	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
36	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
37	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
38	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
39	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
40	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
41	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
42	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
43	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
44	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
45	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
46	A 0.07 95	A 0.21 95	A 0.01 95	A 0.02 95	A 0.01 95	A 0. 95	A 0.01 95	A 0.02 95
47	A 0.02 30	A 0.1 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30	A 0. 30
48	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
49	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
50	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
51	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
52	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
53	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
54	A 0.01 32	A 0.1 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32	A 0. 32
55	A 0.03 35	A 0.22 35	A 0.01 35	A 0.01 35	A 0.01 35	A 0.02 35	A 0.01 35	A 0.02 35

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Table 202 – continued from previous page

	2017.3	2016.2	2015.2	18.02	17.02	14.0	12.0	
#	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size	grade cpu size
56	A 0.03 74	A 0.2 74	A 0.01 74	A 0.01 74	A 0.01 74	A 0. 74	A 0.01 74	A 0.02 74
57	A 0.03 22	A 0.1 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22	A 0. 22
58	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
59	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
60	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
61	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
62	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
63	A 0.03 22	A 0.2 22	A 0.01 22	A 0. 22	A 0.01 22	A 0.02 22	A 0. 22	A 0. 22
64	A 0.03 22	A 0.2 22	A 0.01 22	A 0.01 22	A 0.01 22	A 0. 22	A 0. 22	A 0. 22
65	A 0.03 29	A 0.2 29	A 0.01 29	A 0.01 29	A 0.01 29	A 0.02 29	A 0.01 29	A 0. 29
66	A 0.03 33	A 0.2 33	A 0.01 33	A 0.01 33	A 0.01 33	A 0. 33	A 0. 33	A 0.02 33
67	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
68	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
69	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
70	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
71	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
72	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
73	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
74	A 0.03 14	A 0.19 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14	A 0. 14
75	A 0.03 73	A 0.2 73	A 0.01 73	A 0.01 73	A 0.01 73	A 0.02 73	A 0. 73	A 0. 73
76	A 0.03 57	A 0.22 57	A 0.01 57	A 0.01 57	A 0.01 57	A 0. 57	A 0. 57	A 0. 57
77	A 0.03 34	A 0.2 34	A 0.01 34	A 0.01 34	A 0.01 34	A 0.02 34	A 0. 34	A 0.02 34
78	A 0.03 11	A 0.2 11	A 0.01 11	A 0.01 11	A 0. 11	A 0. 11	A 0. 11	A 0. 11
79	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0
80	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0	F 0 0