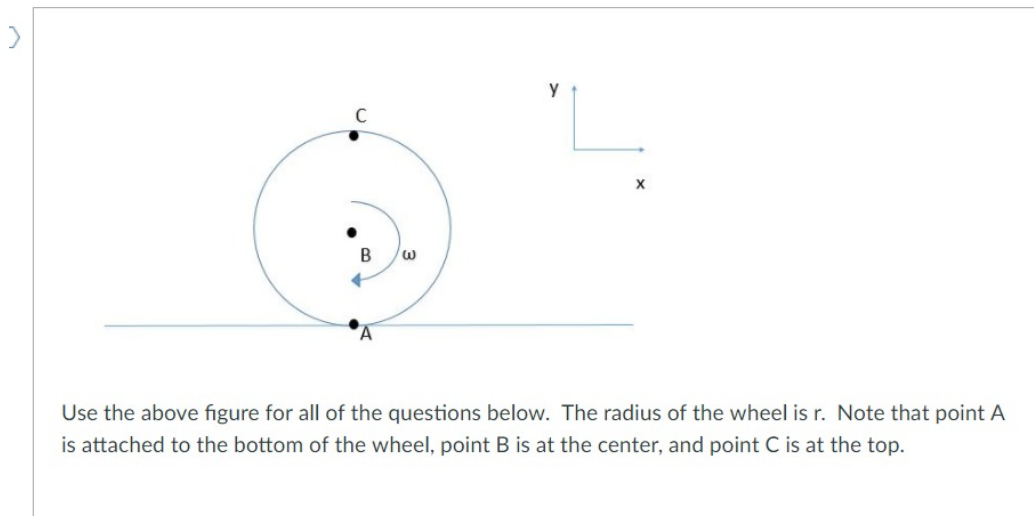


quizz 9, ME 240 Dynamics, Fall 2017

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0.1 Problem 1

Question 1	1 pts
Assume the wheel is traveling to the right and rolling without slip. What is the velocity at point C?	
<hr/>	
<input type="radio"/> $2r\omega$	
<hr/>	
<input type="radio"/> $r\omega^2$	
<hr/>	
<input type="radio"/> $r\omega$	
<hr/>	
<input type="radio"/> not enough information	

$2r\omega$

0.2 Problem 2

Question 2	1 pts
Assume the wheel is slipping such that the velocity of point B is zero. Where is the instantaneous center of velocity of the wheel located?	
<hr/>	
<input type="radio"/> point B	
<hr/>	
<input type="radio"/> point A	
<hr/>	
<input type="radio"/> No instantaneous center exists	
<hr/>	
<input type="radio"/> none of the above	

Point B

0.3 Problem 3

Question 3	1 pts
For a wheel that is slipping such that the velocity of B is zero. How are the velocities of point A and C related?	
<input type="radio"/> Equal magnitude opposite direction	
<input type="radio"/> Equal magnitude and same direction	
<input type="radio"/> no relationship	
<input type="radio"/> none of the above	

Equal and opposit

0.4 Problem 4

Question 4	1 pts
Assume the wheel is traveling to the right and rolling with slip. The angular velocity of the wheel points in direction shown in the figure.	
Where is the instantaneous center of velocity for the wheel located?	
<input type="radio"/> Between points A and B	
<input type="radio"/> Point A	
<input type="radio"/> Point B	
<input type="radio"/> Point C	
<input type="radio"/> Not enough information	

Between A and B