Homework #6
EMA 545, Spring 2013

1.) **Problem 3.41** in Ginsberg. Check your answer for λ=1.0 using FFT techniques with the fft_easy.m Matlab function from the course website.

2.) **Problem 3.50** in Ginsberg. DO PART (a) ONLY.

3.) (**20 points**) Find the steady-state response of the system in **Problems 3.45** and **3.46** from Ginsberg using FFT techniques. Perform your analysis with $\tau = \pi/(3\omega_n)$ as stated in the problem and also repeat the analysis for $\tau = 3\pi/\omega_n$. Which harmonic is dominant in the response in each case? Why? Create a plot of the steady-state displacement for each case.