

**EE322 Fall 2009 Homework Problem Set 28 (PS28)**

Be sure to show your work.

1. Text, Problem 12-5a, b, d. Hint: find the impulse responses to determine if causal.
2. Text, Problem 12-6a, b, c. Don't forget that the Frequency Response of the filter is equal to the Fourier transform of the output (called the "response") divided by the Fourier transform of the input (called the "excitation"). Use MATLAB for the plots of magnitude and phase, and plot frequency in radians/sec to match the answers provided. Adjust your range of frequencies on the frequency axis until you get one of the solutions provided. Plot phase in radians. Turn in your code as well as the plots! Use the subplot command to put magnitude and phase plots on one figure.