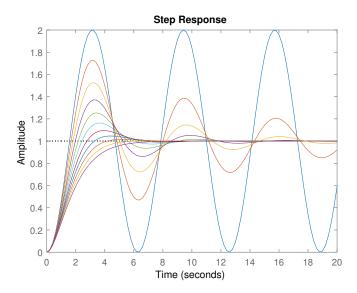
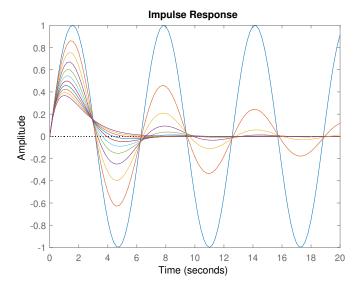
EE363 Automatic Control: Homework #6

- 1) MATLAB exercises. Submit your codes and plots.
 - a) The following two plots display the step responses and the impulse responses of the standard second order systems G(s) with $\zeta=0,0.1,0.2,\ldots,1.0$ and $\omega=1,$ for $0\leq t\leq 20.$ Reproduce the plots by using MATLAB® step() and impulse() functions.

$$G(s) = \frac{\omega^2}{s^2 + 2\zeta\omega s + \omega^2}$$





b) Repeat HW#2-2 and HW#4-1 by using MATLAB® step() or rlocus() functions, and check if those correspond to your hand-drawn results.