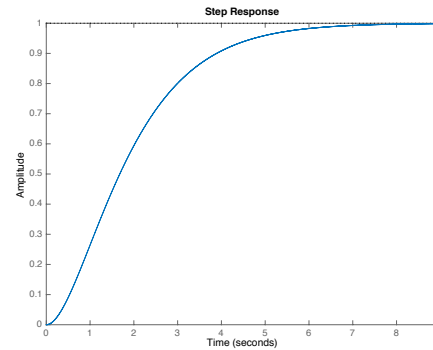
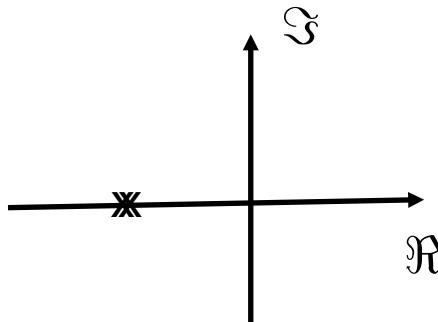
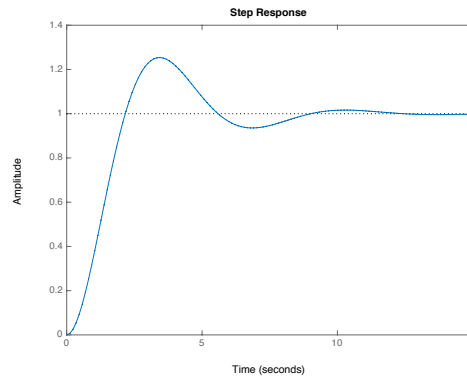
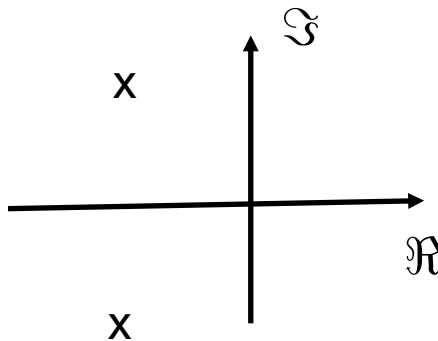


$\zeta > 1$
over damped



$\zeta = 1$
critically damped



$0 < \zeta < 1$
under damped