

$$t_s = 10 = \frac{4.6}{\zeta \omega_n} \Rightarrow \zeta \omega_n = 0.46$$

$$\zeta_{OS} = 20\% \Rightarrow \zeta = \frac{-\ln(.2)}{\sqrt{\ln(.2)^2 + \pi^2}} = 0.46$$

choose $\omega_n = 1$ $\zeta = 0.46$