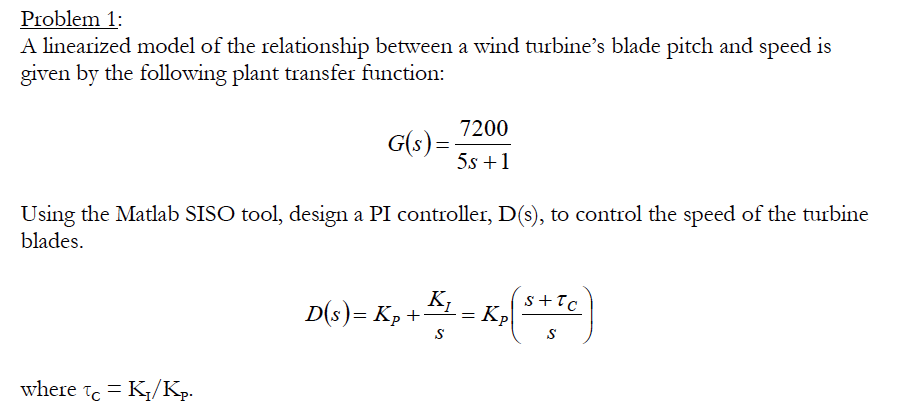
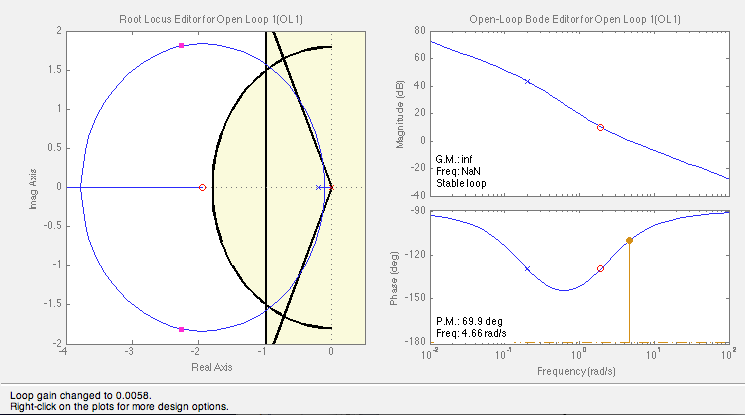
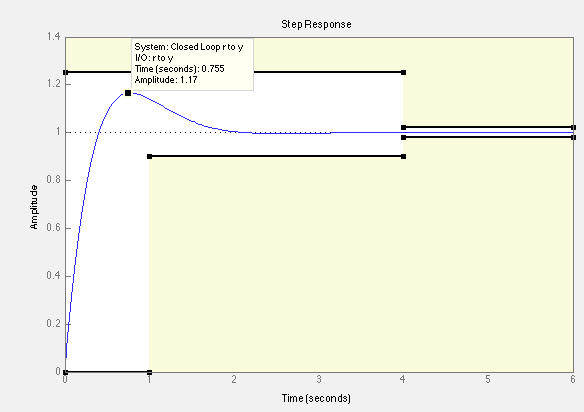
Problem 1)



D(s)=

Kp=.0058, tc=1.94





as can seen in the step plot above, the system meets all constraints

Mp=17%

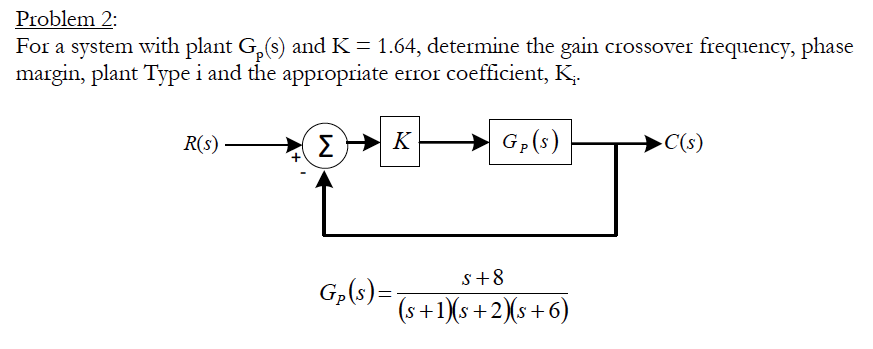
tp=.755 seconds

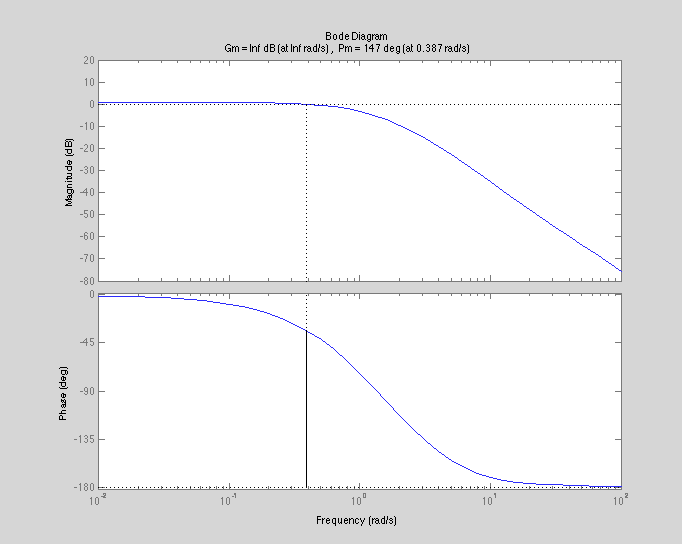
tr=.323 seconds

ts=1.75 seconds

ess=0

Problem 2)





Phase Margin = 147 degrees

Gain Crossover Frequency

wc= getGainCrossover(sys,1)

wc=0.3874