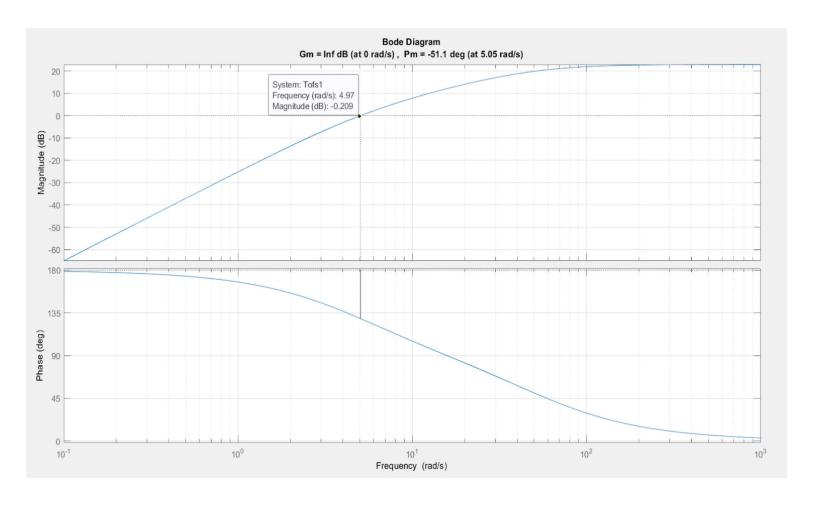
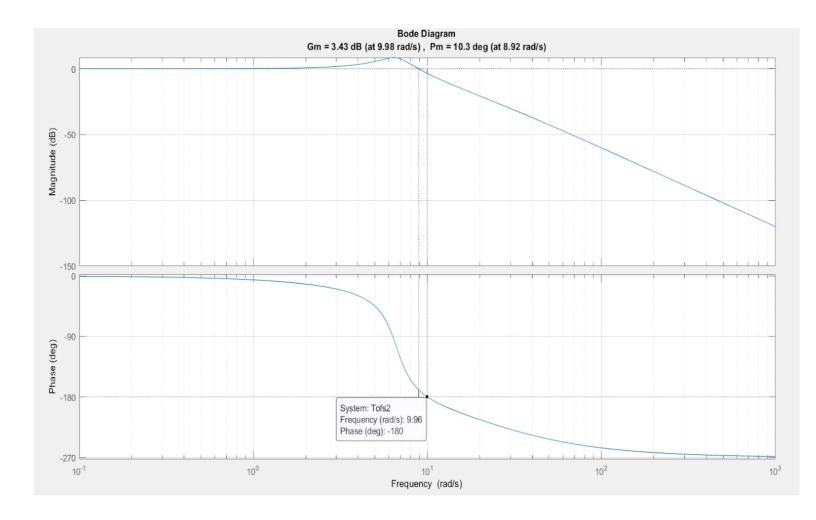
Bode Plots:

System Q.7



From the above Bode plot, we observe that for K = 0.056, Gain Crossover Frequency is wp = 5 rad/sec, as required.

System Q.8



From the above Bode Plot, it is clear that the Phase Crossover Frequency is 9.96 rad/sec.