

Question 1

$K > 0$

Figure 1 : Bode(G)

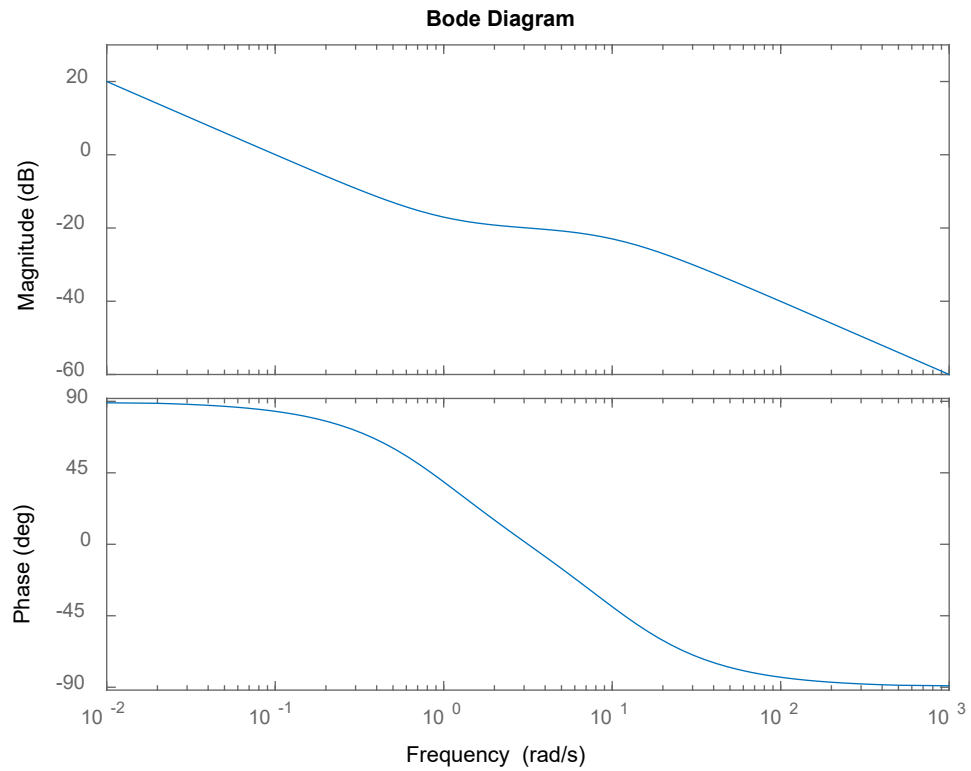


Figure 2 : nyquist(G)

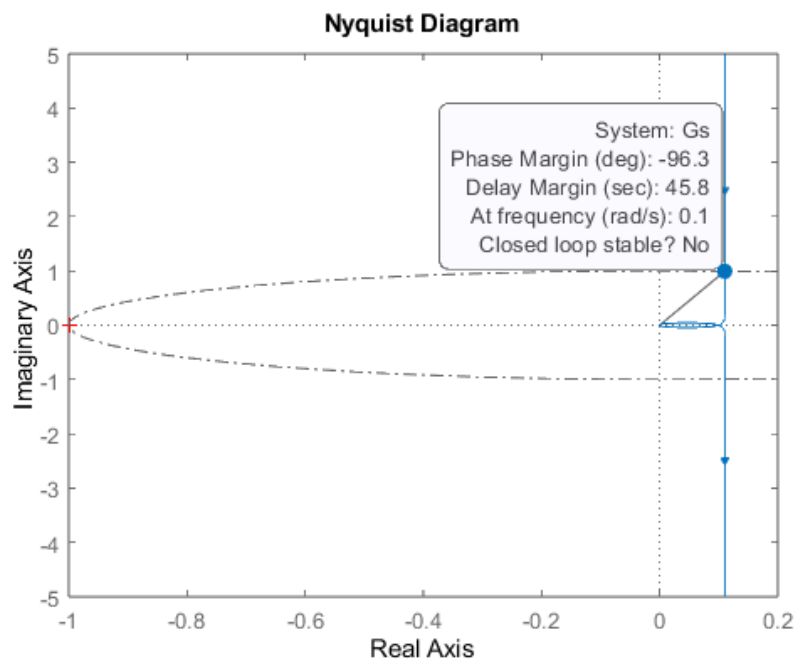
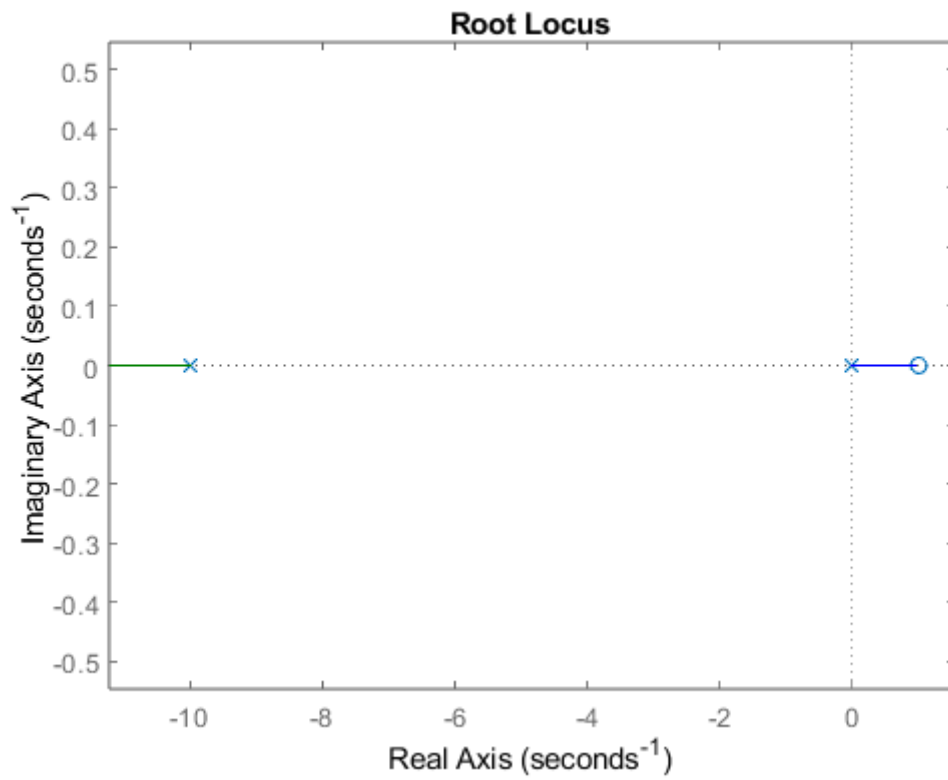


Figure 3 : rlocus(G)



$K < 0$

Figure 4 : Bode de G

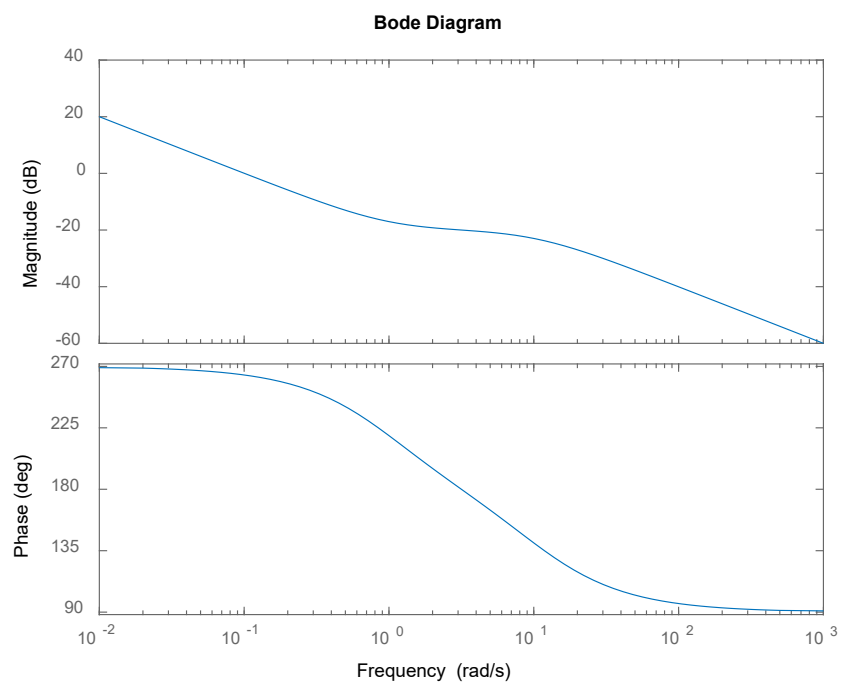


Figure 5 : Nyquist de G

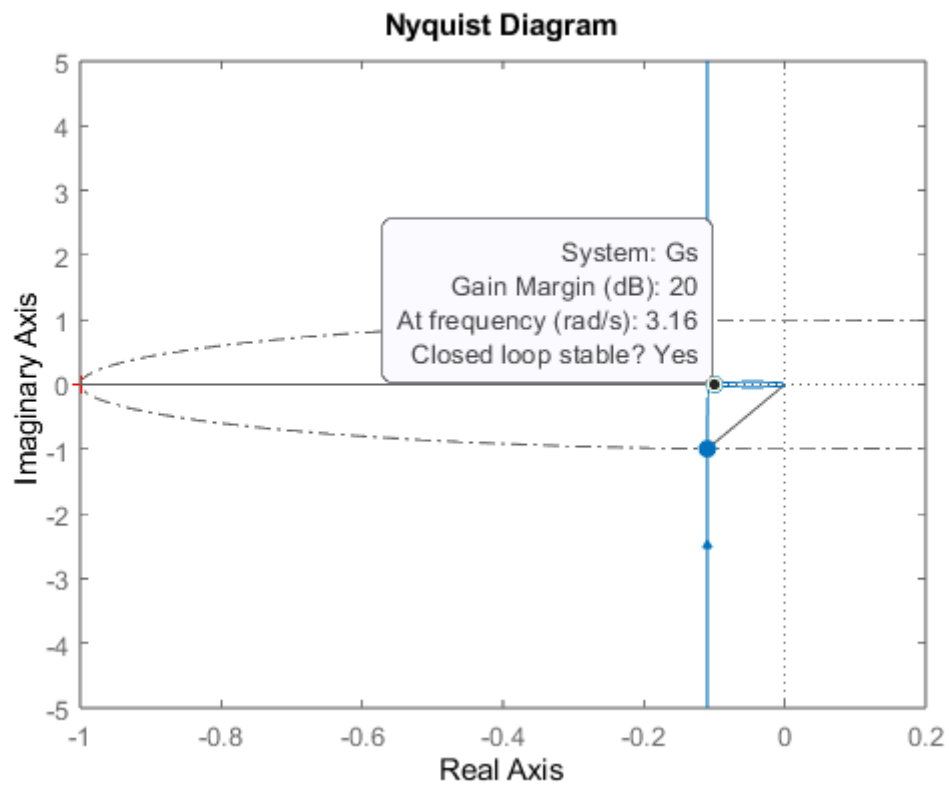
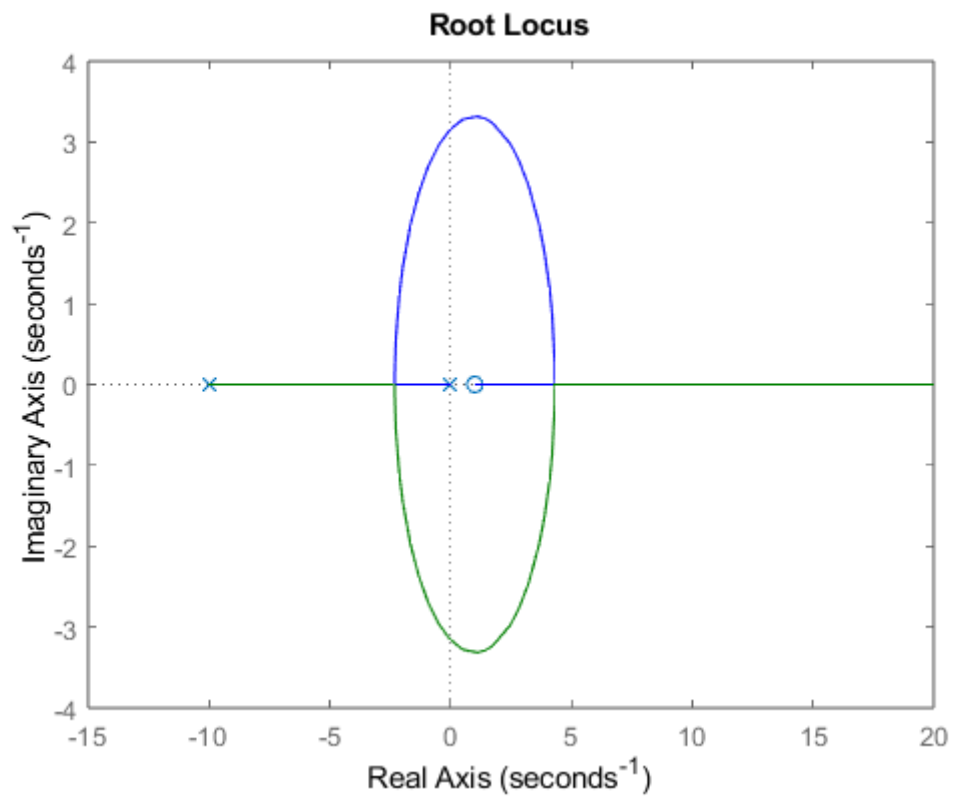


Figure 6 rootlocus de G



Question 2

Figure 7 : Matlab du système en temporel

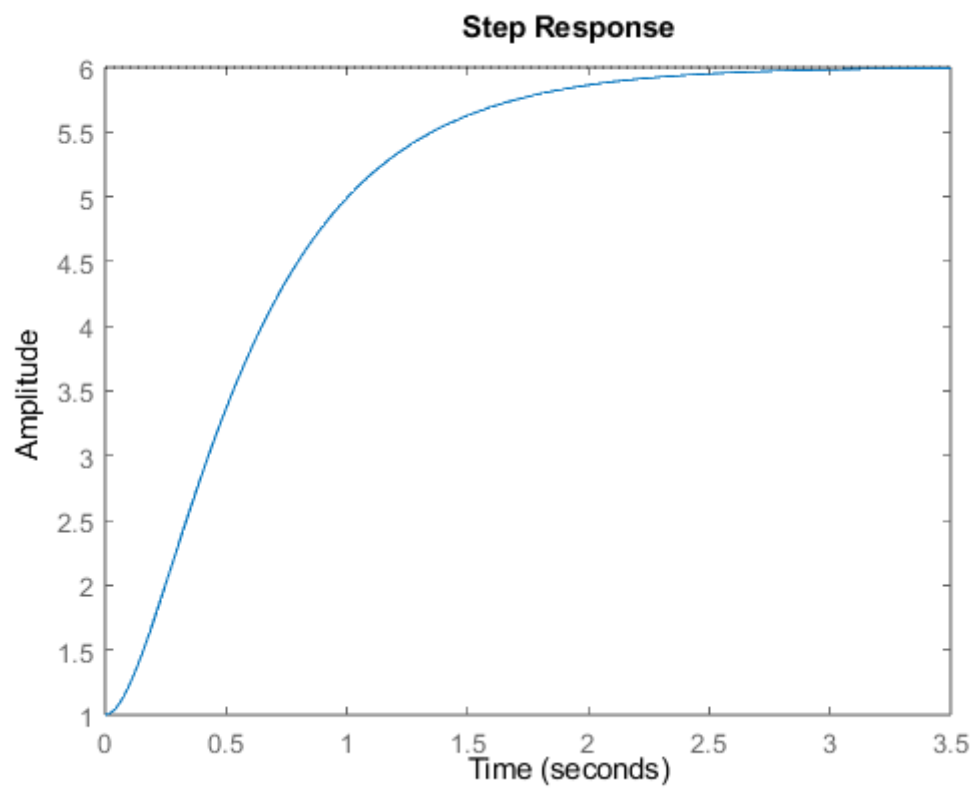


Figure 8 : Geogebra

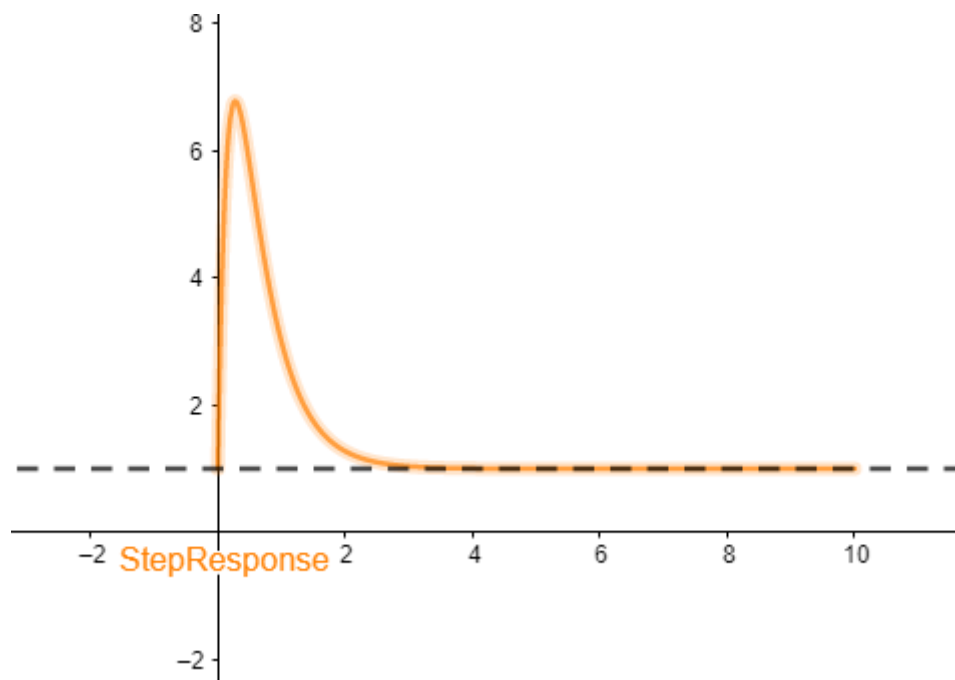


Figure 9 : step de x1, x2

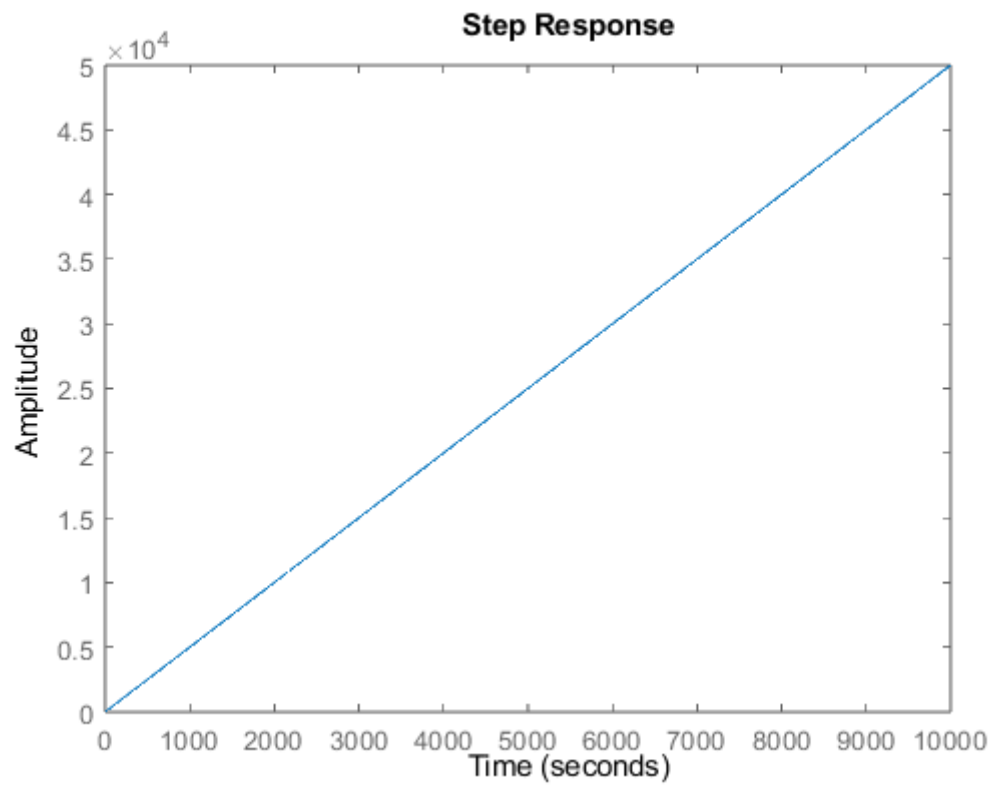


Figure 10 : marge de Phase de P(s)

