Problem 3 - Infinite Horizon LQR
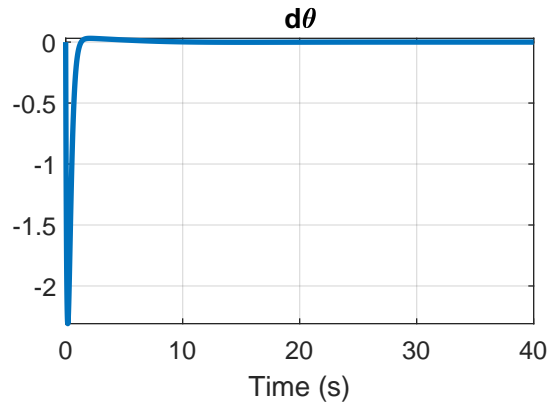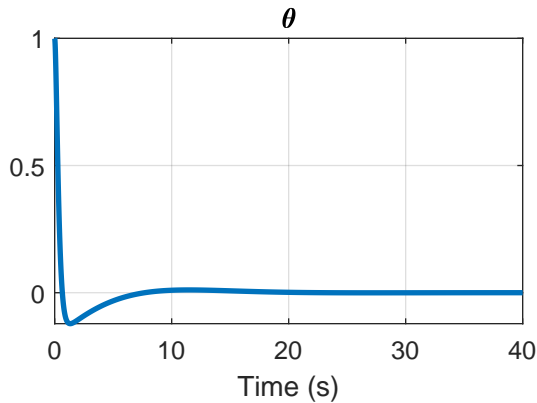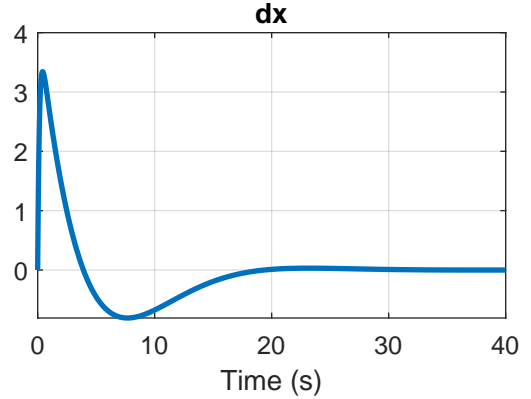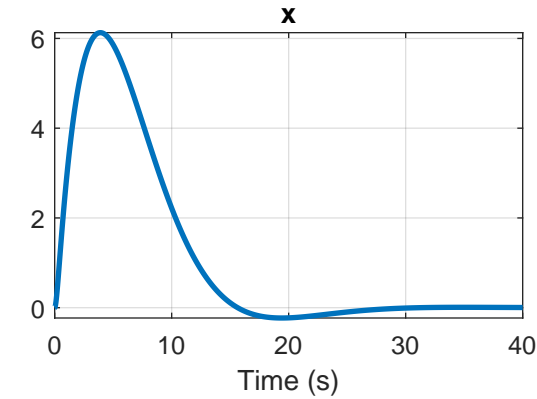

2.1: K_{LQR} = [-1 -3.0315 -69.603 -13.493]

eig(Atilde) = [-0.44074 + j0.37095, -0.44074 + j-0.37095, -4.4439 + j0, -6.652 + j0]

2.2: K_{LQR} = [-0.2582 -1.3678 -63.703 -11.99]

eig(Atilde) = [-0.21195 + j0.20273, -0.21195 + j-0.20273, -5.0393 + j0, -5.843 + j0]