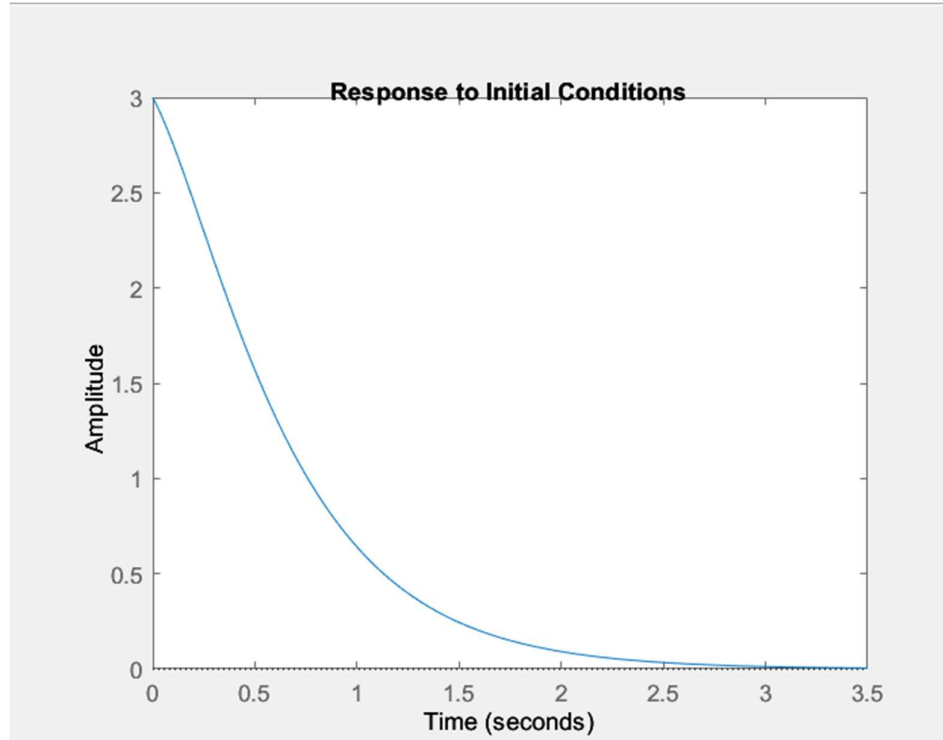


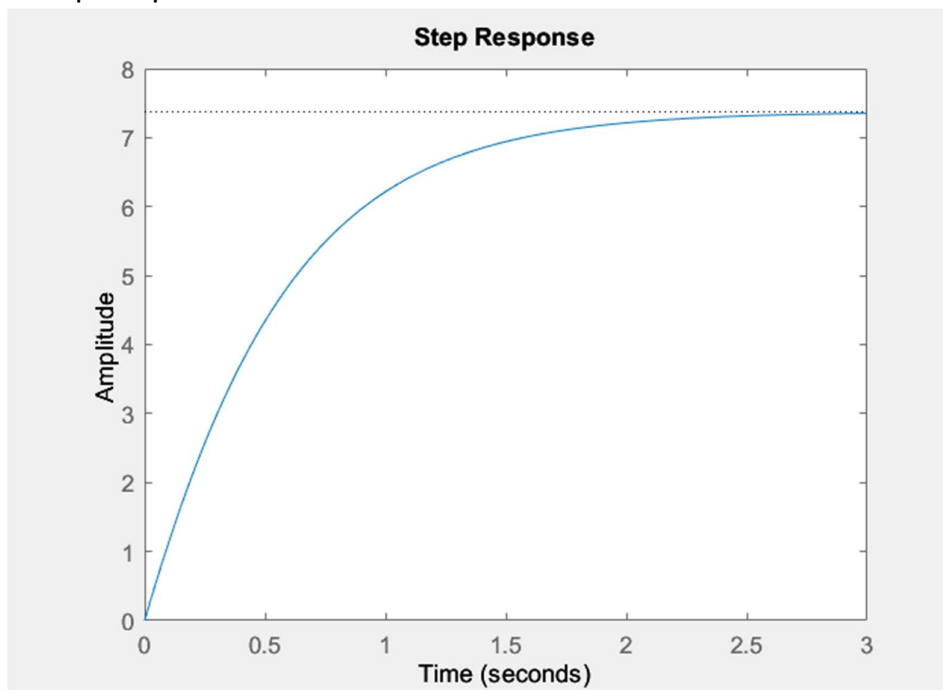
PLOTS OF RMC ASSIGNMENT 4

Q3. Part: b

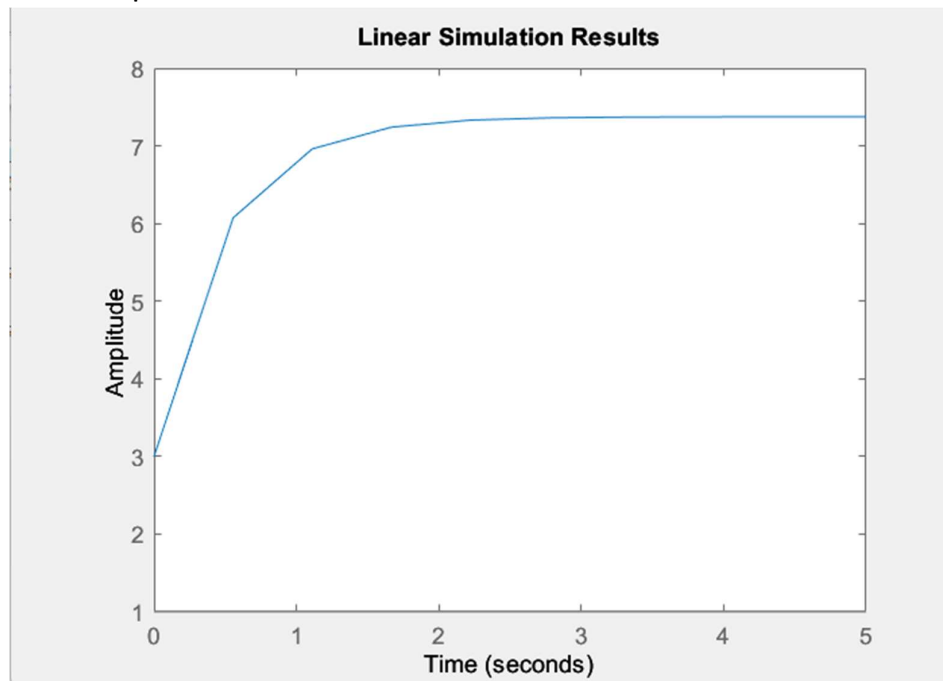
1. Zero Input Response



2. Unit Step Response

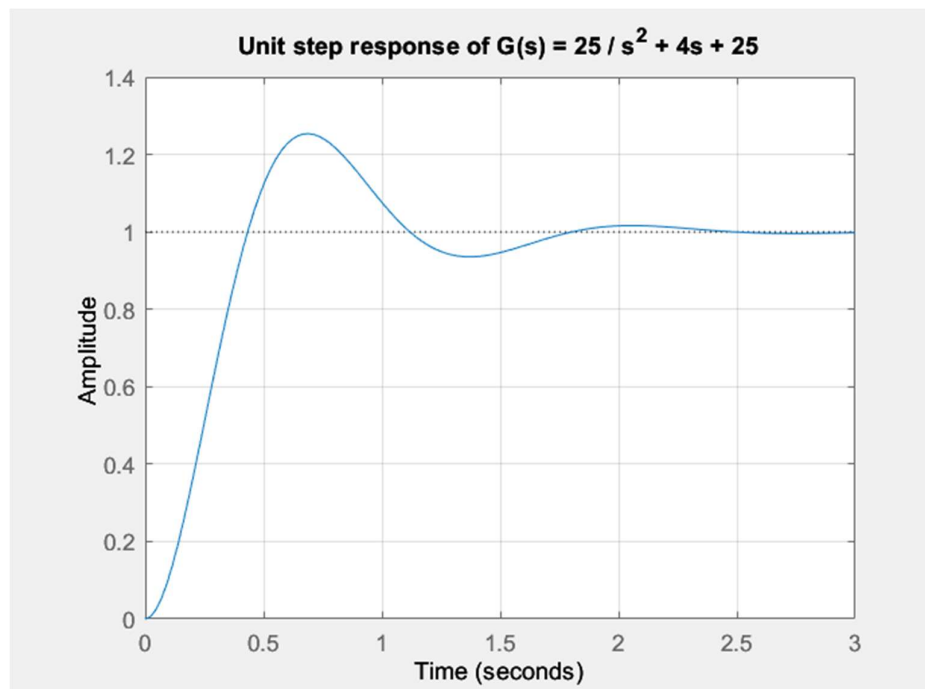


3. General Response



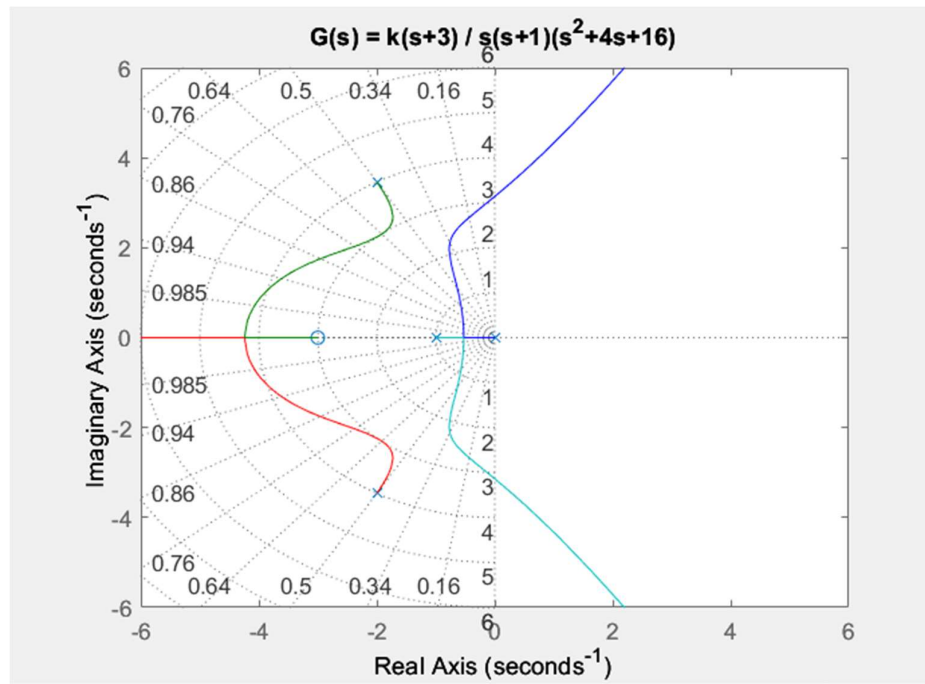
Q4. Unit Step Response

$$G(s) = 25 / s^2 + 4s + 25$$



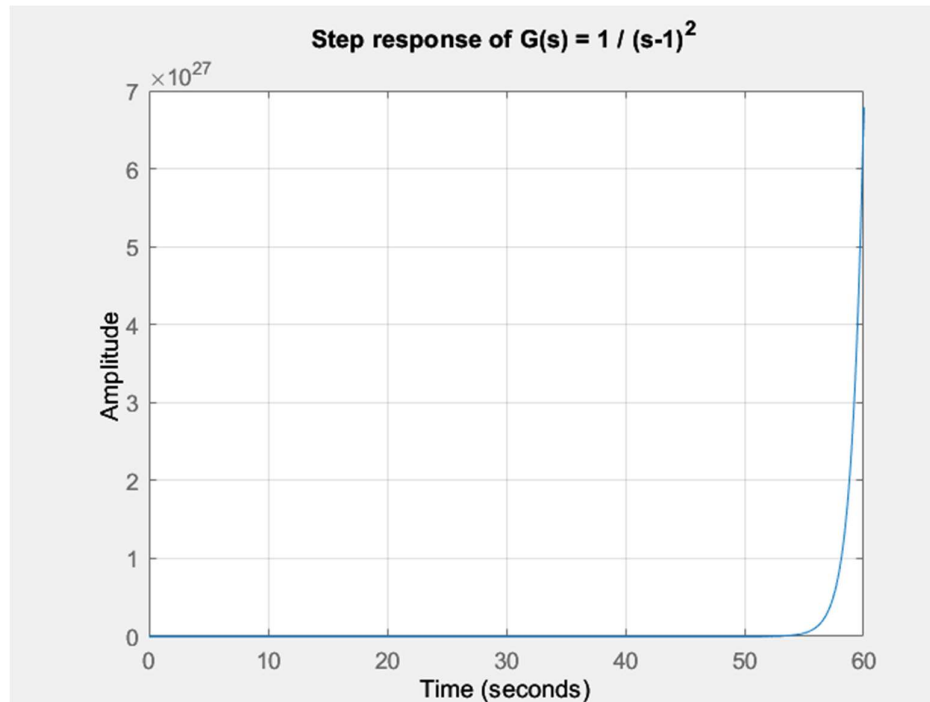
Q7. Root Locus

$$G(s) = k * (s+3) / s * (s+1) * (s^2 + 4s + 16)$$



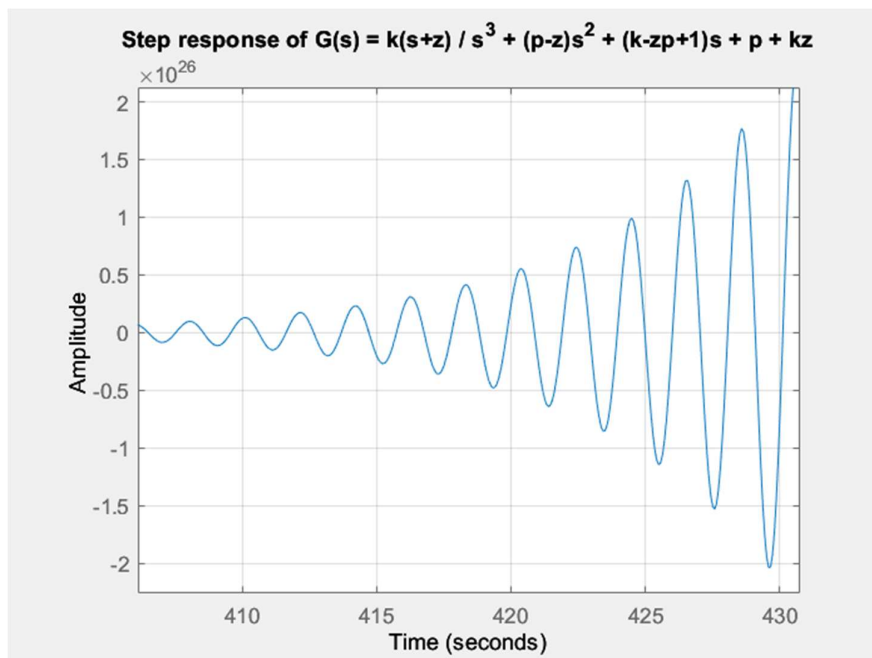
Q8. Step Response

Before: $G(s) = 1 / (s-1)^2$

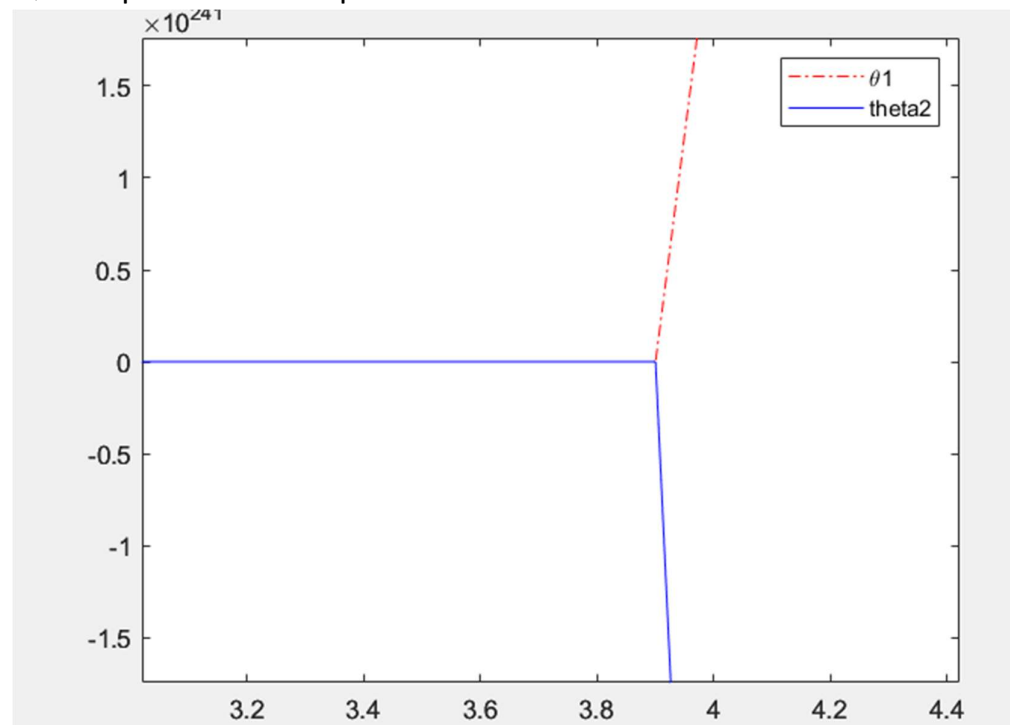


After: $G(s) = 10s + 10 / s^3 + s^2 + 9s + 12$

$K = 10, z = 1, p = 2$



Q5. Response of 2DOF planar arm



Q6. Response

