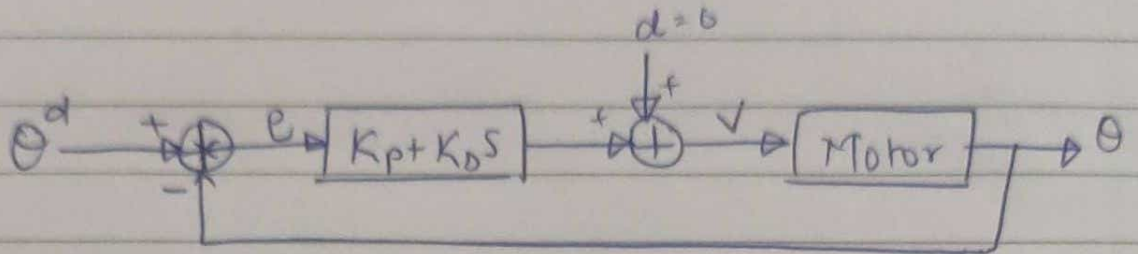


Assignment 6,7

Task 3:-

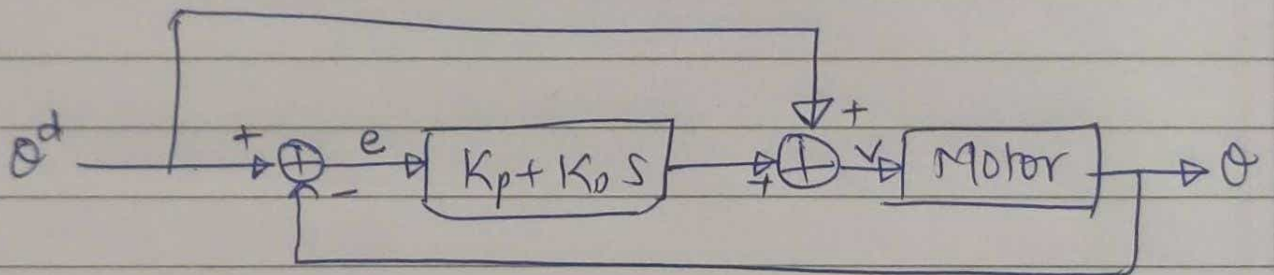
a.



$$K_p = 0.5 \quad ; \quad K_D = 1$$

$$v = K_p e(t) + K_D \dot{e}(t)$$

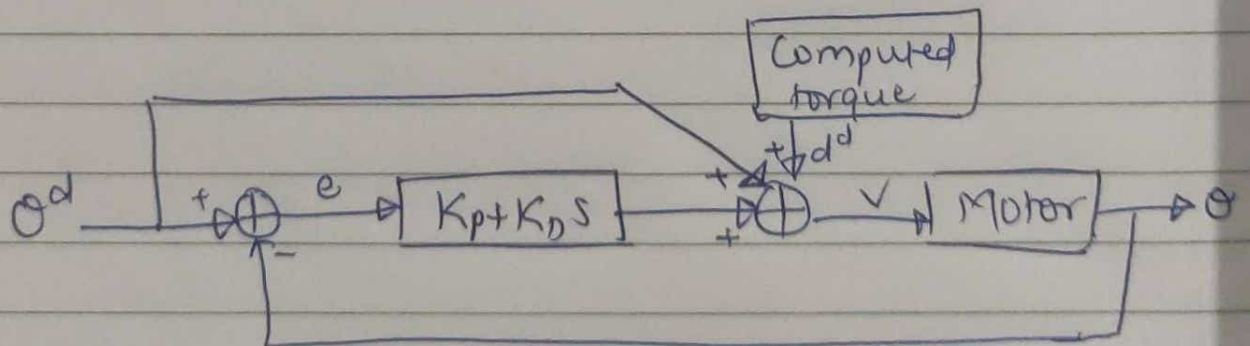
b)



$$v = K_p e(t) + K_D \dot{e}(t) + \theta^d$$

$$K_p = 0.5 \quad ; \quad K_D = 1$$

c)



$$v = K_p e(t) + K_D \dot{e}(t) + \theta^d + d^d$$

$$K_p = 0.5 \quad ; \quad K_D = 1$$