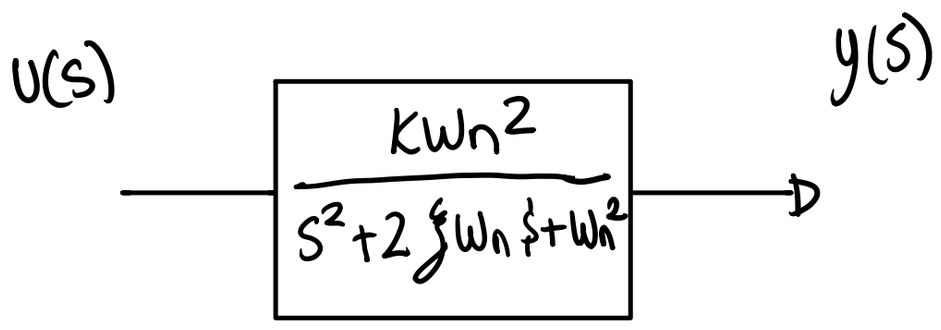
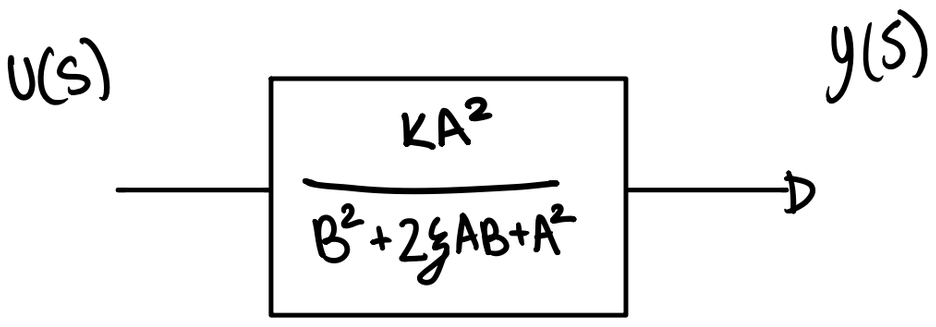
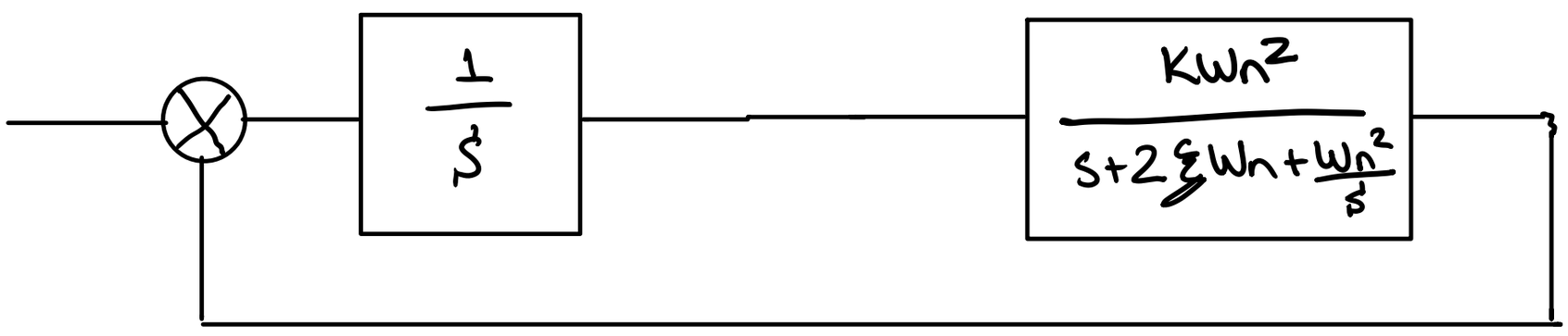
Tarea 7

07/11/18 18:12



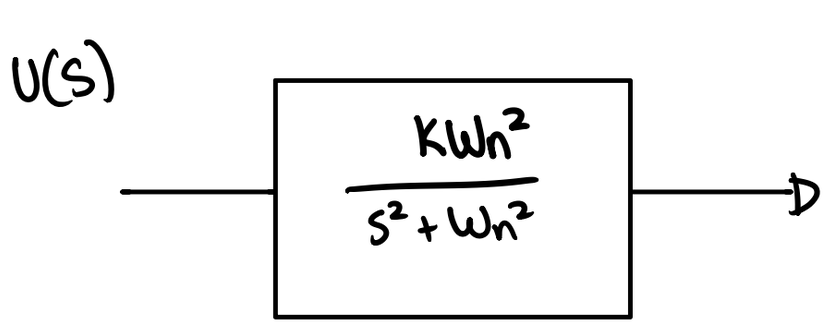


$$\frac{K\omega_n^2}{S^2+2\xi\omega_n S+\omega_n^2} = \frac{KA^2}{B^2+2\xi AB+A^2}$$



$$\frac{K\omega_n^2}{S^2+2\xi\omega_n S+\omega_n^2}\left(\frac{1}{S^{-1}}\right) = \frac{K\omega_n^2}{S+2\xi\omega_n+\frac{\omega_n^2}{S}}$$

Para $\xi = 0$ (No amortiguado)



$$\frac{K\omega_n^2}{S^2+2\xi\omega_n S+\omega_n^2} = \frac{K\omega_n^2}{S^2+\omega_n^2} = \frac{KA}{A+B}$$