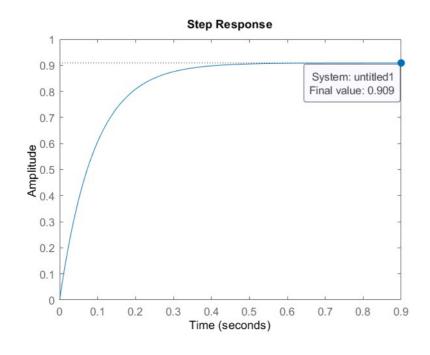
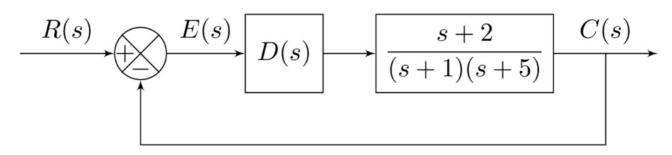
Ejemplo 1

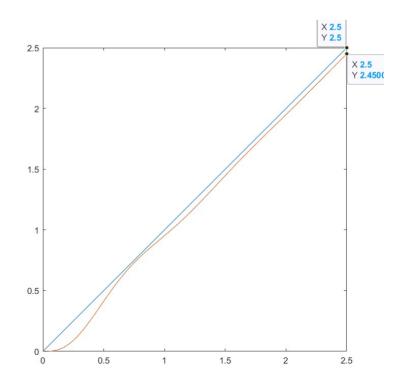
$$\begin{array}{c|c}
R(s) & E(s) \\
\hline
 & s+1
\end{array}$$



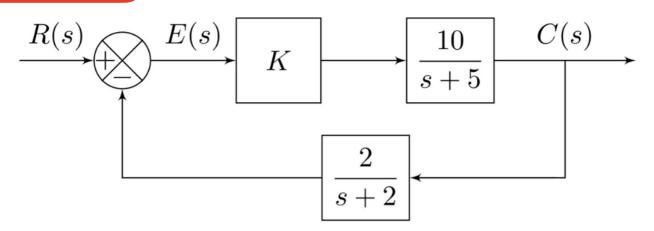
Ejemplo 2



Como se pide error finito ante la voempe, el sistema de be ser tipo 1, enton ces $D(s) = \frac{K}{s}$ $ess = \frac{1}{Kv} = 0.05 \implies Kv = 20$



Ejemplo 3



Como el Esteun no tiene realimentación unitaria. Fe debetransformar

$$G(S) = \frac{10 \, \text{K}}{S + 5} \qquad \qquad H(S) = \frac{2}{S + 2}$$

$$\bar{q}(s) = \frac{G(s)}{1 + G(s)[H(s) - 1]}$$

$$= \frac{10k}{1+\left(\frac{10k}{5+5}\right)\left(\frac{2}{5+2}-1\right)}$$

$$\frac{10R}{5+5}$$

$$\frac{1+\left(\frac{10R}{5+5}\right)\left(\frac{Z-(5+2)}{5+2}\right)}{5+2}$$

$$\overline{G}(S) = \underbrace{lok(S+2)}_{S^2 + (7-lok)S + lo}$$

Sepide error finito ante el es calón, por lo que ess = 1 - 0.02 => Kp = 49

$$\lim_{S \to 0} \frac{10 \, \text{K(S+2)}}{S^2 + (1 - 10 \, \text{K)} + 10} = \frac{20 \, \text{K}}{10} = 49$$

