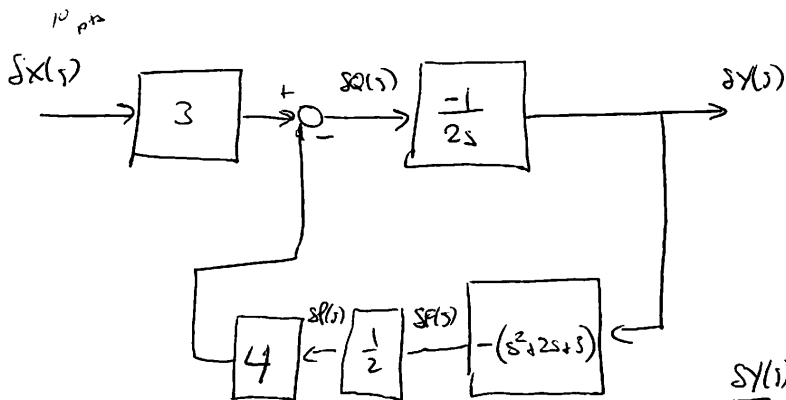


$$\frac{Y(s)}{F(s)} = \frac{-1}{s^2 + 2s + 3}$$

$$\begin{aligned} n_o + d_o k_p &= 4 \\ n_o k_x k_p &= -5 \\ \frac{1}{n_o} &= -3 \end{aligned}$$



Spb

$$\begin{aligned} \frac{SY(s)}{SX(s)} &= \frac{-\frac{1}{2s}}{1 + \frac{s^2 + 2s + 3}{s}} \cdot 3 \\ &= \frac{-3/2}{s^2 + 3s + 3} \end{aligned}$$

