

ב-1 א: 16 פיקום 3ND פן נ-5

3ND פיקום 16

$$\Delta(s) = s^2 + (B+1)s + A$$

$$2f\omega_0 = 2 \cdot 0.5 \cdot \omega_0 = B+1$$

$$B+1 = \omega_0 = \sqrt{A}$$

$$(B+1)^2 = A \quad (1)$$

$$k_v = \frac{A}{B+1} = 4 \quad (2)$$

$$A = 4(B+1)$$

$$(B+1)^2 = 4(B+1) \Rightarrow B+1 = 4$$

$$B = 3$$

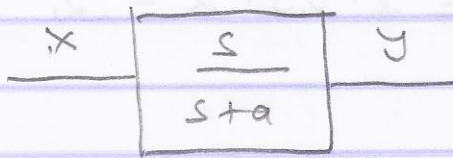
$$A = 16$$

$$\Delta(s) = s^2 + 4s + 16$$

$$\omega_0 = 4 \quad ; \quad 2f\omega_0 = 2 \cdot 0.5 \cdot 4 = 4 \Rightarrow \text{QED}$$

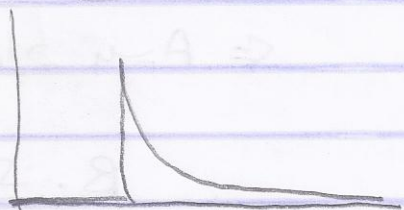
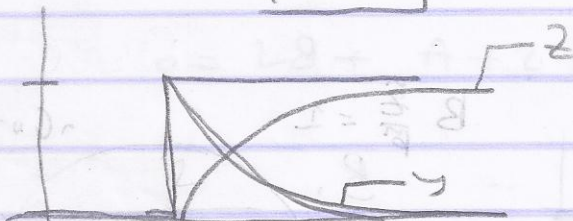
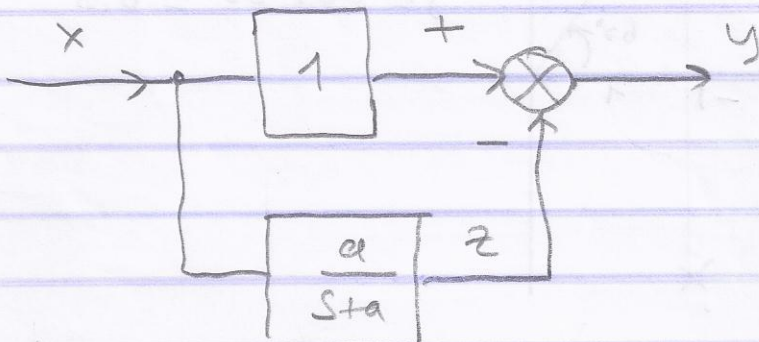
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Wash-out filter

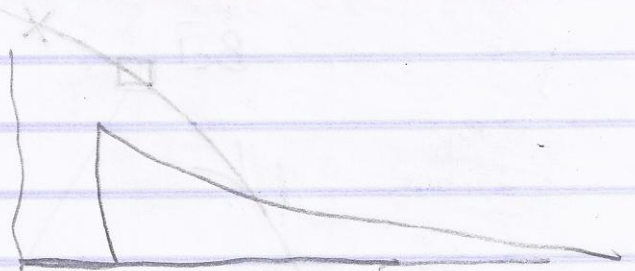


! e/N'N

$$\frac{y}{x} = \frac{s}{s+a} = \frac{s+a-a}{s+a} = 1 - \frac{a}{s+a}$$



! 3 e a ~ N w0



! 6'8 w0
| 0; a