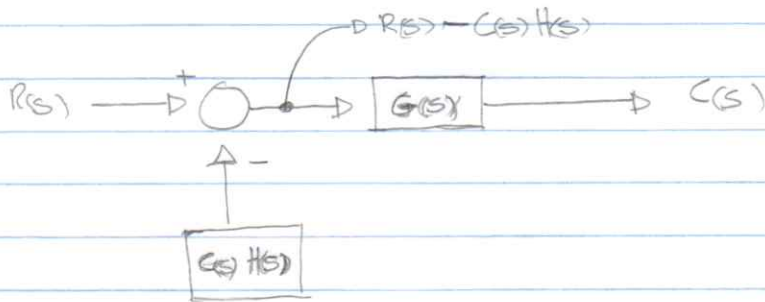
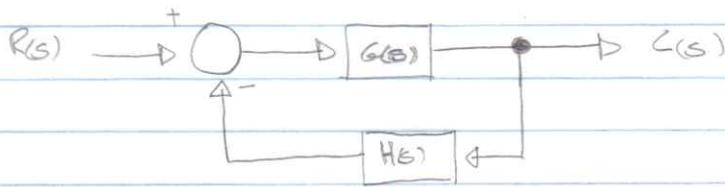


tesis

1. a)



$$C(s) = (R(s) - C(s)H(s)) \times G(s)$$

$$= R(s)G(s) - C(s)G(s)H(s)$$

→ Distribuir

$$C(s) + C(s)G(s)H(s) = R(s)G(s)$$

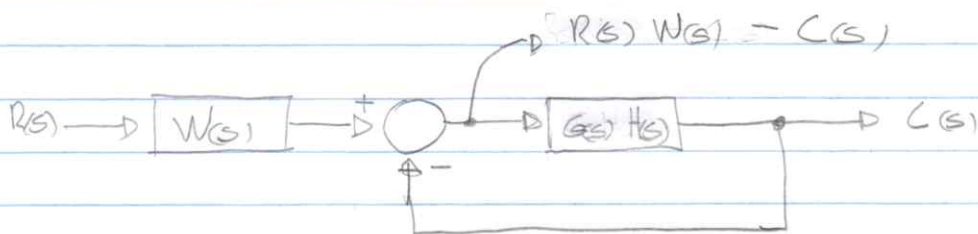
→ Por evidência

$$C(s)(1 + G(s)H(s)) = R(s)G(s)$$

→ Decompor

$$C(s) = \frac{G(s)}{1 + G(s)H(s)} R(s)$$

$$R(s)$$



$$(R(s)W(s) - C(s)) \cdot G(s)H(s) = C(s)$$

$$R(s)W(s)G(s)H(s) - C(s)G(s)H(s) = C(s)$$

$$R(s)W(s)G(s)H(s) = C(s) + C(s)G(s)H(s)$$

$$R(s)W(s)G(s)H(s) = C(s)(1 + G(s)H(s))$$

$$C(s) = \frac{W(s)G(s)H(s)}{1 + G(s)H(s)} R(s)$$

$$R(s)$$

$$\frac{W(s)G(s)H(s)}{(1 + G(s)H(s))} = \frac{G(s)}{(1 + G(s)H(s))}$$

$$W(s) = \frac{1}{H(s)}$$