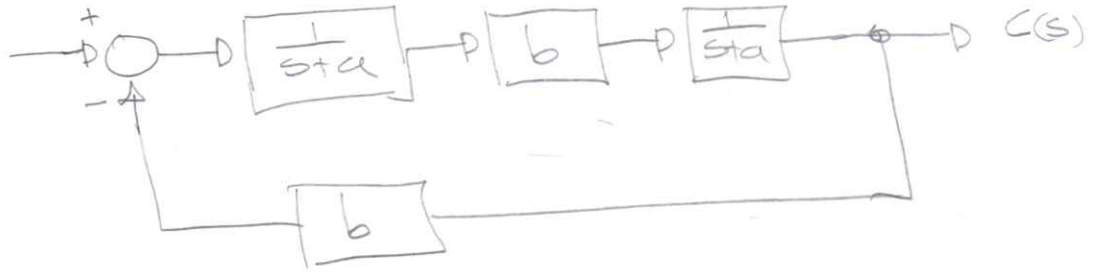




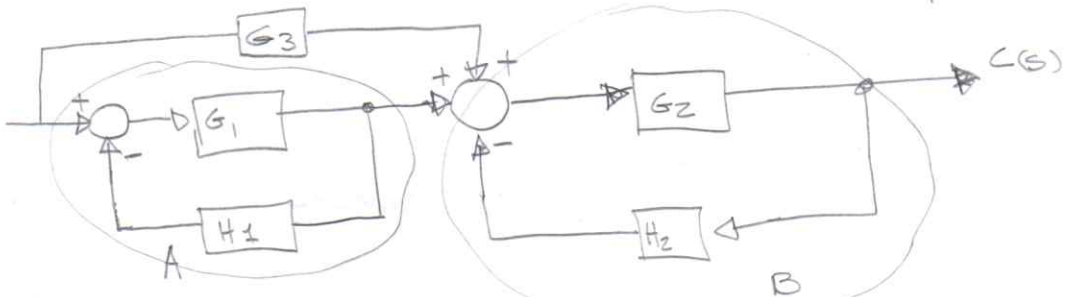
j)



$$\frac{\frac{b}{(s+a)^2} x(s)}{1 + \frac{b}{(s+a)^2}} = \frac{b x(s)}{(s+a)^2 + b^2}$$

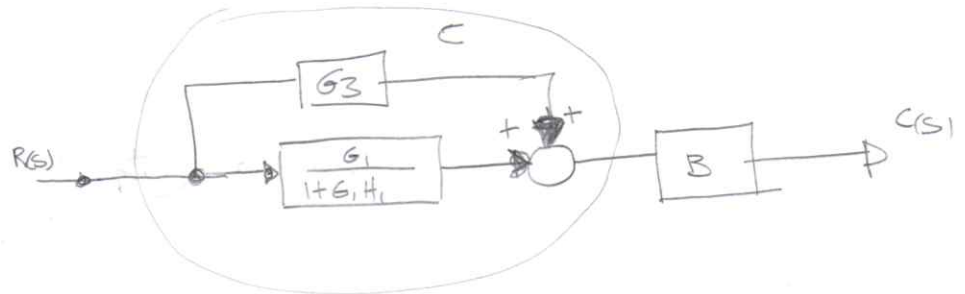
→ now always in relation to the sum symbol
note: - realimentação entra sempre na soma.

k)



$$A = \frac{G_1}{1 + G_1 H_1}$$

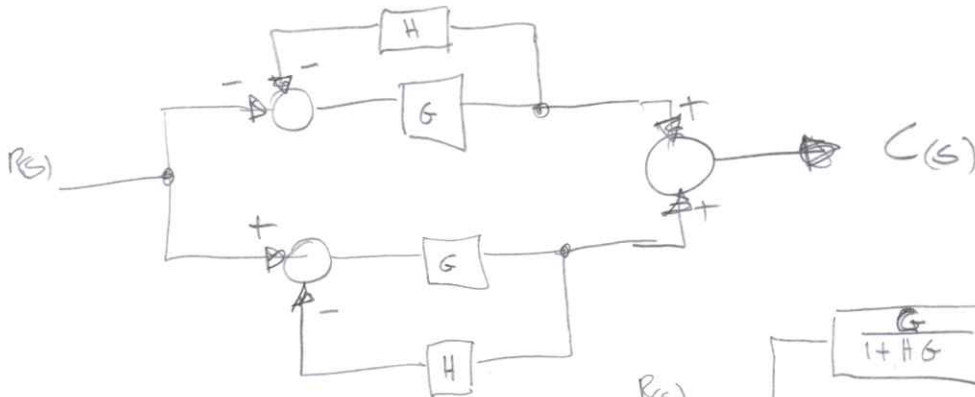
$$B = \frac{G_2}{1 + G_2 H_2}$$



$$C = \frac{G_1}{1 + G_1 H_1} + G_3$$

$$C \times B = \left(\frac{G_1}{1 + G_1 H_1} + G_3 \right) \left(\frac{G_2}{1 + G_2 H_2} \right)$$

g)



$$\frac{C(s)}{R(s)} = \phi$$

