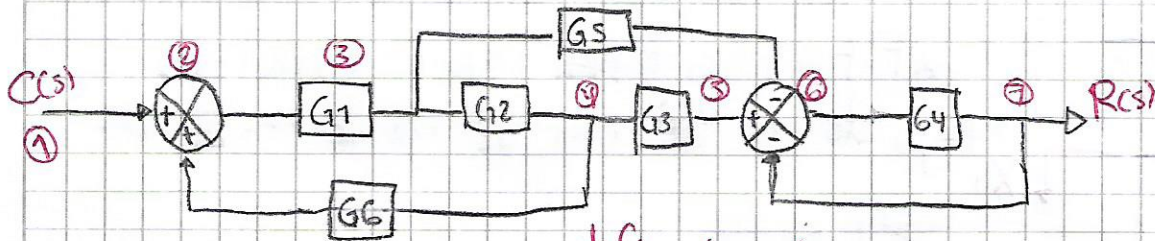
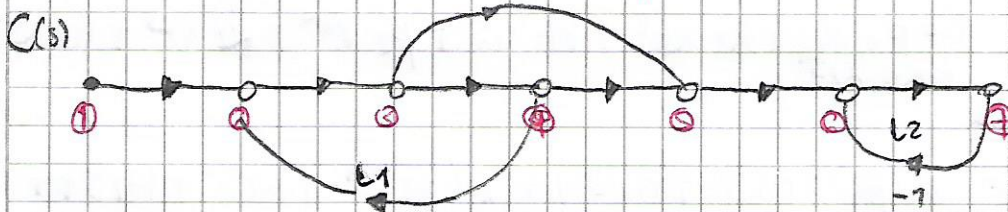


Andrés Eduardo Rincón A.

24/01/20



↓ flujo de señal



$$M_1 = G_1 G_2 G_3 G_4$$

$$M_2 = G_1 (-G_5) G_4 = -G_1 G_4 G_5 \quad \Delta = 1$$

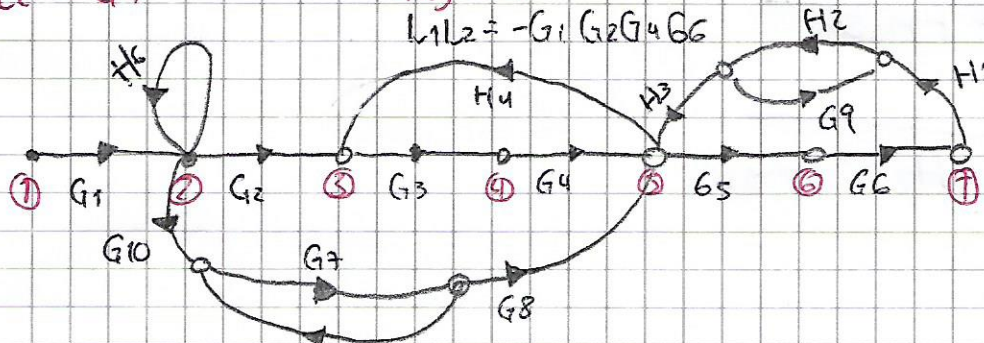
$$G(s) = \frac{G_1 G_2 G_3 G_4 - G_1 G_4 G_5}{1 - G_1 G_2 G_6 + G_4 - G_1 G_2 G_4 G_6}$$

$$L_1 = G_1 G_6 G_6$$

$$L_2 = -G_4$$

Laços disjuntos

$$L_1 L_2 = -G_1 G_2 G_4 G_6$$



$$M_1 = G_1 G_2 G_3 G_4 G_5 G_6$$

$$M_2 = G_1 G_{10} G_7 G_8 G_5 G_6 = G_1 G_5 G_6 G_7 G_8 G_{10}$$

$$L_1 = H_6$$

$$L_2 = H_5 G_7$$

$$L_3 = G_3 G_4 H_4$$

$$L_4 = G_5 G_6 H_1 H_2 H_3 G_9$$

$$L_5 = G_9 H_2$$

$$L_1 L_2 L_3 L_5 = G_3 G_4 G_7 G_9 H_2 H_4 H_5 H_6$$

$$G(s) = \frac{G_1 G_2 G_3 G_4 G_5 G_6 + G_1 G_5 G_6 G_7 G_8 G_{10}}{1 - H_6 - H_5 G_7 - G_3 G_4 H_4 - G_5 G_6 H_1 H_2 H_3 G_9 - G_9 H_2 + G_3 G_4 G_7 G_9 H_2 H_4 H_5 H_6}$$