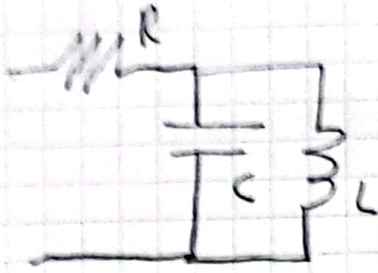


Intensidad



$$T(s) = \frac{s \frac{6}{C}}{s^2 + \frac{6}{C}s + \frac{1}{LC}}$$

$$B = \frac{\omega_0}{Q} = \frac{1}{RC}$$

$$\omega_0^2 = \frac{1}{LC}$$

BP1

$$\bullet C = 1F \Rightarrow \frac{1}{C \cdot R} = 0,125 \Rightarrow R = 8 \Omega$$

$$\bullet \omega_0 = 1$$

$$\bullet Q = 8$$

$$\frac{1}{L \cdot C} = 1 \Rightarrow L = 1H$$

BP2

$$\bullet C = 1F \Rightarrow \frac{1}{C \cdot R} = 0,056 \Rightarrow R = 17,86 \Omega$$

$$\bullet \omega_0 = 0,9$$

$$\bullet Q = 10,074$$

$$\frac{1}{L \cdot C} = 0,81 \Rightarrow L = 1,22 H$$

BP3

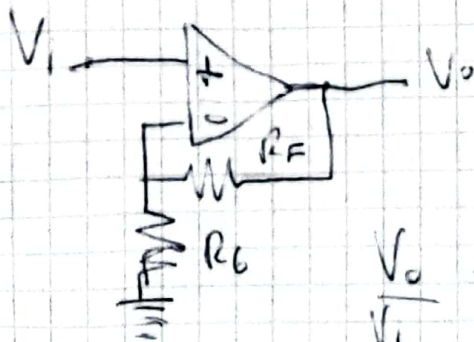
$$\bullet C = 1 \Rightarrow \frac{1}{RC} = 0,07 \Rightarrow R = 14,29 \Omega$$

$$\bullet \omega_0 = 1,1$$

$$\bullet Q = 15,9$$

$$\frac{1}{L \cdot C} = 1,22 \Rightarrow L = 0,915 H$$

Gain - Atenuación



$$G = \frac{11,77}{1,77} = 6,65$$

$$R_F = 10,77 \quad R_G = 1$$

$$\frac{V_o}{V_i} = 1 + \frac{R_F}{R_G}$$