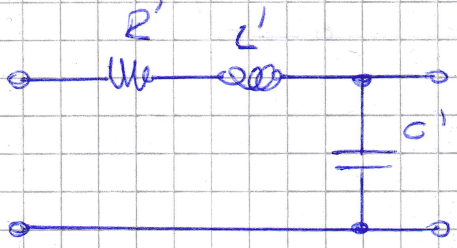
PUNTO (3): (CORREGIDO)

Debo crear dos redes pasivas (una cuadrática y otra simple)



$$\Rightarrow T(s) = \frac{1/L'C'}{s^2 + \frac{R'}{L'}s + 1/L'C'}$$

En nuestro caso:

$$T(s) = \frac{1,585}{s^2 - 1,26s + 1,585}$$

$\omega_0^2 = 1,585 \Rightarrow \omega_0 = 1,26$ con $Q = 1$.

$$\omega_0^2 = \frac{1}{L'C'} \quad \wedge \quad \frac{\omega_0}{Q} = \frac{R'}{L'}$$

Suponendo norma de impedancia $R' = \Omega z \Rightarrow \boxed{R' = 1}$

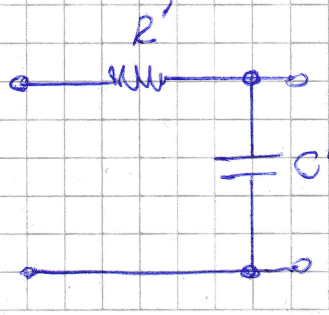
$$\frac{\omega_0}{Q} = \frac{1}{L'} \Rightarrow (Q = 1) \Rightarrow \omega_0 = \frac{1}{L'} \Rightarrow \boxed{L' = 1/\omega_0} \quad L' = \frac{1}{1,26}$$

$$\omega_0^2 = \frac{1}{L'C'} = \frac{1}{\frac{1}{\omega_0} \cdot C'} = \frac{\omega_0}{C'}$$

$$\boxed{L' \simeq 0,8}$$

$\omega_0^2 = \frac{\omega_0}{C'} \Rightarrow \boxed{C' = 1/\omega_0 = L' \simeq 0,8}$

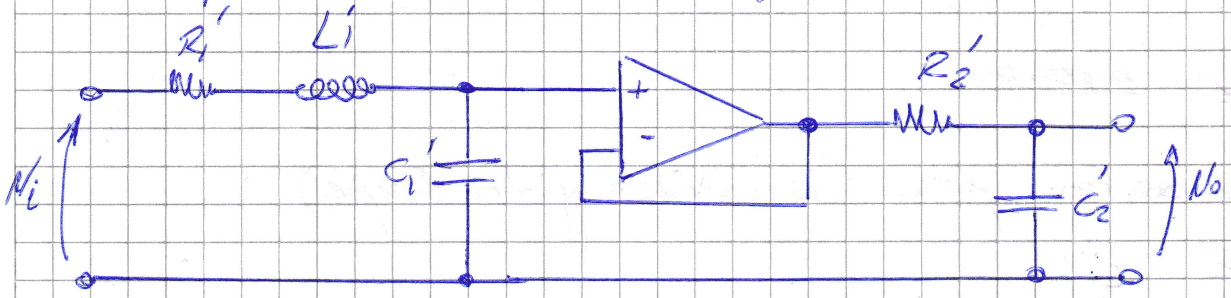
--- (Componentes normalizados por $S\omega$ y Sz.)



$$T(s) = \frac{1/R'C'}{s + 1/R'C'} \Rightarrow \boxed{R' = 1}$$

$$\boxed{C' = 1/\omega_0 \simeq 0,8}$$

La red queda de la siguiente forma: (Normalizada)



$$\begin{cases} R_1' = R_2' = 1 \\ C_1' = C_2' = L_1' \approx 0,8 \end{cases}$$