$$T_{PA}(s) = \frac{s^3}{\left[s-(-0,7983)\right]\left[s-(-0,3992+j0,6914)\right]\left[s-(-0,3992-j0,6914)\right]}$$

$$T_{PA}(s) = \frac{s^3}{(s+0,7983)\left(s^2+0,3992\,s+j0,6914\,s+0,3992\,s+0,3992^2\right.}$$
$$\overline{\left.+j0,3992\cdot0,6914-j0,6914\,s-j0,6914\cdot0,3992-j^20,6914^2\right)}$$

$$T_{PA}(s) = \frac{s^3}{(s+0,7983)\left[s^2+\left(0,3992+0,3992\right)s+0,3992^2+0,6914^2\right]}$$

$$T_{PA}(s) = \frac{s^3}{(s+0,7983)\left(s^2+0,7984\,s+0,6374\right)}$$

$$T_{PA}(s) = \underbrace{\frac{s}{(s+0,7983)}}_{Fo\,s}\;\underbrace{\frac{s^2}{\left(s^2+0,7984\,s+0,6374\right)}}_{So\,s}$$

$Fo\,s:$
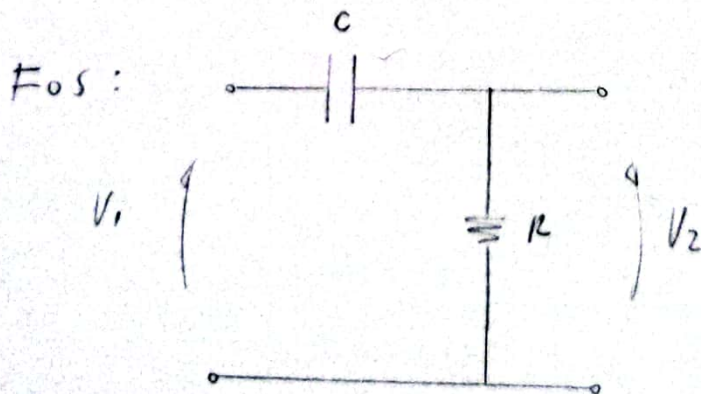
$$T_{Fos}(s) = \frac{V_2}{V_1} = \frac{R}{\dfrac{1}{sC}+R} = \frac{sRC}{sRC+1}$$

$$= \frac{s}{s+\dfrac{1}{RC}}$$

Escaneado con CamScanner

$$\omega_0 = \frac{1}{RC} \quad ; \quad \Omega_z = R \quad ; \quad R = 1 \quad ; \quad C = \frac{1}{R\omega_0} \quad ; \quad C = \frac{1}{0,7983} = 1,2527$$
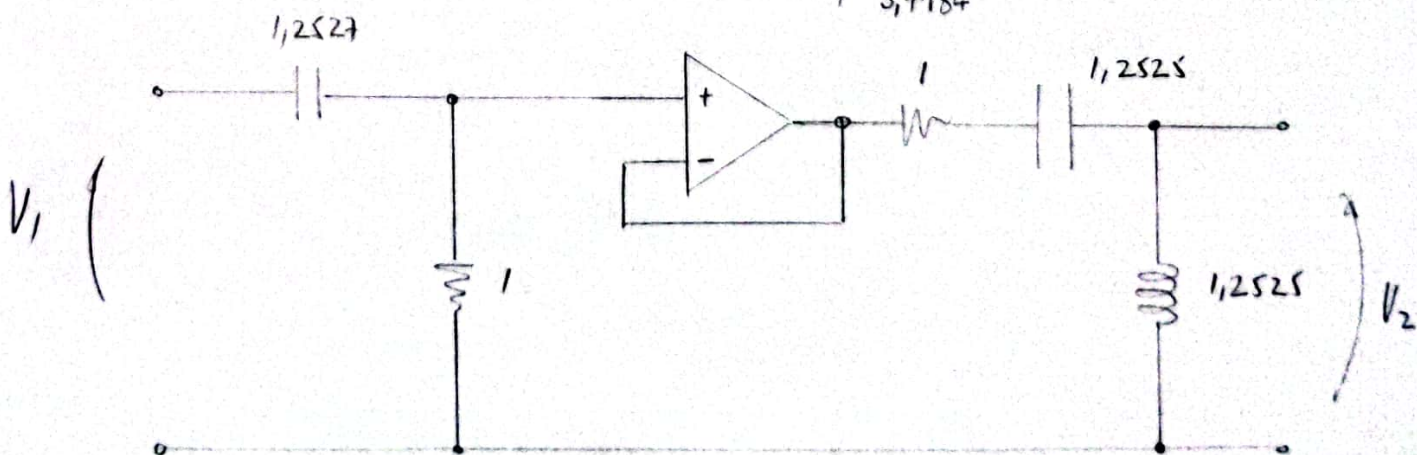
SoS:
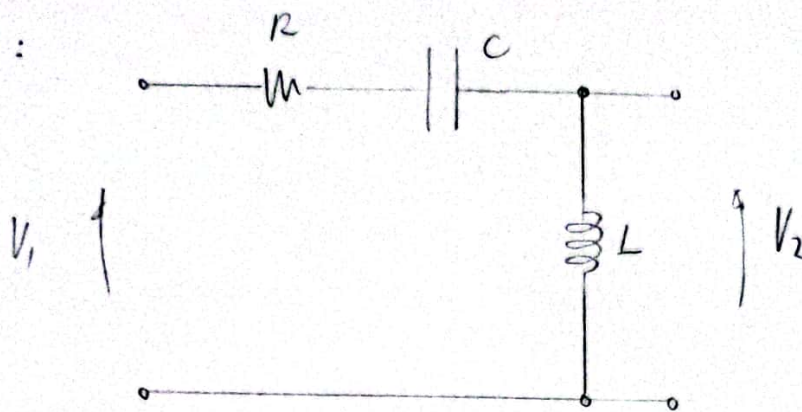
$$T_{sos}(s) = \frac{sL}{R + sL + \frac{1}{sC}} = \frac{s^2 LC}{sRC + s^2 LC + 1} = \frac{s^2}{s^2 + s\frac{R}{L} + \frac{1}{LC}}$$

$$\omega_0^2 = 0,6374 \quad ; \quad \omega_0 = 0,7984$$

$$\frac{\omega_0}{q} = \frac{R}{L} \quad ; \quad \Omega_z = R \quad ; \quad R = 1 \quad ; \quad L = R\frac{q}{\omega_0} = R\frac{1}{\omega_0/q} = 1,2525$$

$$\omega_0^2 = \frac{1}{LC} \quad ; \quad C = \frac{1}{L\omega_0^2} = \frac{1}{R\frac{q}{\omega_0}\omega_0^2} = \frac{1}{Rq\omega_0} = \frac{1}{\omega_0} = 1,2525$$

$$q = \frac{\omega_0}{0,7984} = 1$$

$$T_{PA}(1) = \frac{V_2}{V_1}$$