$$\left|T(J\omega)\right|^{2} = \frac{1}{1+5^{2}\left(\frac{\omega}{\Omega\omega}\right)^{2m}} = \frac{1}{1+\frac{1}{5^{-2}}\left(\frac{\omega}{\Omega\omega}\right)^{2m}} = \frac{1}{1+\left(\frac{\omega}{5^{-1/2}}\Omega\omega\right)^{2m}}$$

$$T(s) = \frac{d}{(s+a)(s^2+b\cdot s+c)}$$

$$T(s) := \frac{1}{(s+1)(s^2+b\cdot s+1)} = \frac{1}{(s+1)(s^2+s+1)}$$

$$2\omega_1 \psi = 2\omega_1 \frac{\pi}{3} = 1$$

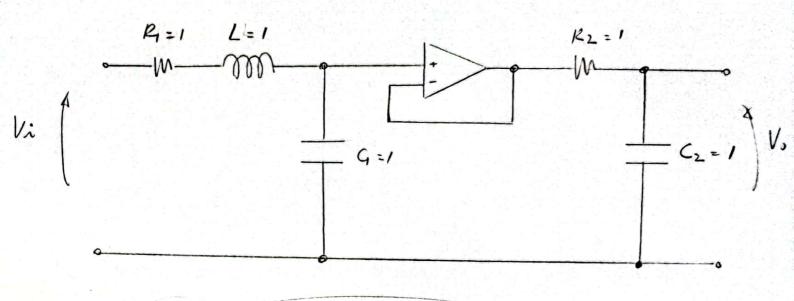
Con calculatory o on Python, wapy. wots (don) con don to coef's del denominador: 
$$p_1 = -0, X + \sqrt{3}/2$$

$$p_2 = -0, X - \sqrt{3}/2$$

$$p_3 = -1$$

Los resultados coincidos con la tabla 6.1 de la página 200

del Scharmann: Pole Cention for Butterworth responses.



$$\omega_{0}^{2} = L; \quad \omega_{0} = 1$$

$$\omega_{0} = \frac{R}{L}; \quad L = \frac{R}{\omega_{0}} q; \quad Tomando \quad \Omega_{z} = R_{1}, \quad L = \frac{q}{\omega_{0}} = q = 1$$

$$\omega_{0} = \frac{1}{LC_{1}}; \quad C_{1} = \frac{1}{\omega_{0}L}; \quad C_{1} = \frac{1}{\omega_{0}} = \frac{1}{q} = 1$$

$$\omega_{0} = \frac{1}{LC_{1}}; \quad C_{1} = \frac{1}{\omega_{0}L}; \quad C_{1} = \frac{1}{\omega_{0}} = \frac{1}{q} = 1$$

Tomando C, = Cz = 100 nF :

$$C_{In} = C_{I} \cdot \Omega z \cdot \Omega \omega = G \cdot \Omega z \cdot \Omega \omega = \frac{C_{In}}{C_{I} \cdot \Omega \omega} =$$