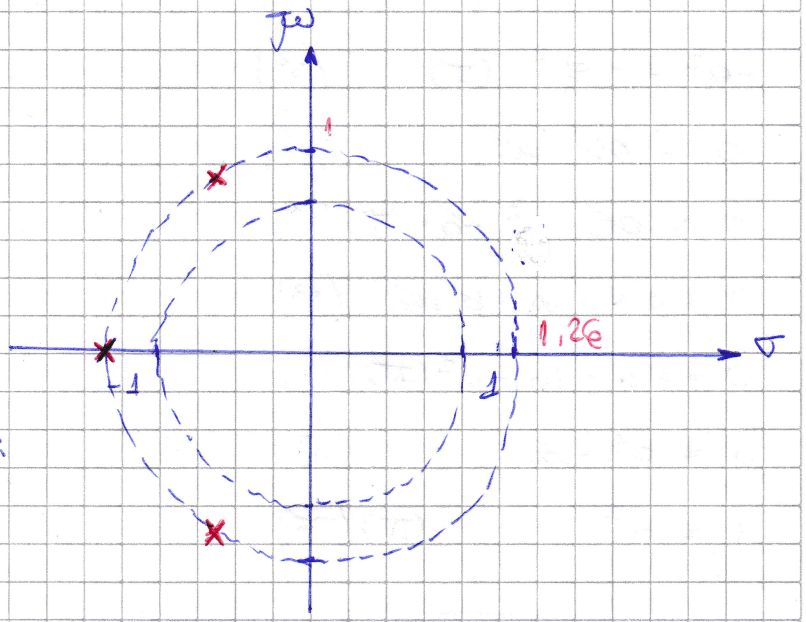
PUNTO (2)

De la función de transferencia:

$$\begin{cases} s_1 = -1,26 \\ s_2 = 0,63 + j1,09 \\ s_3 = 0,63 - j1,09 \end{cases}$$



Normalizando la función de transferencia:

$$T(s) = \frac{2}{s^3 + 2,52s^2 + 3,18s + 2}$$

$$\omega_0^2 = (1,585) \Rightarrow \boxed{\omega_0 = 1,2589} \cong (1,26)$$

$$T(s) = \frac{\frac{\omega_0}{1,26}}{s - 1,26} \cdot \frac{\frac{\omega_0^2}{1,585}}{s^2 - 1,26s + 1,585}$$

$$\boxed{Q = 1} \leftarrow \frac{\omega_0}{Q} = 1,26 \rightarrow Q = 1$$