

GRUPO 2 ~~Exo~~ 2 - TP N° 7

Correcciones

$$\underline{f_0 = 1100 \text{ Hz}}$$

$$\bullet I_{ef} = \frac{1,329 \text{ V}}{986 \Omega} = 0,0013 \text{ A}$$

$$\bullet Z = \frac{1,345 \text{ V}}{0,0013 \text{ A}} = 997,8706 \Omega$$

$$\bullet X_C = \frac{0,395 \text{ V}}{0,0013 \text{ A}} = 293,0549 \Omega$$

$$\bullet C = \frac{1}{6.917,81 \cdot 293,0549 \Omega} = 0,4937 \times 10^{-6} \mu\text{F}$$

$$\bullet Z_L = \frac{0,391 \text{ V}}{0,0013 \text{ A}} = 290,0873 \Omega$$

$$\bullet X_L = \sqrt{(290,0873 \Omega)^2 - (11,5 \Omega)^2} = 289,8592 \Omega$$

$$\bullet L = \frac{289,8592 \Omega}{6.917,81} = 0,0419 \text{ H}$$

$$\bullet \varphi = \arctan \frac{289,8592 \Omega - 293,0549 \Omega}{11,5 \Omega + 986 \Omega} = -0^\circ 11' 8''$$