

Electricidade CA

Atividade: Ressonância

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$$\textcircled{1}^{\circ} \text{ a) } L = \frac{480 \Omega}{2\pi \cdot 60 \text{ Hz}} = 1,27 \text{ mH}$$

$$C = \frac{1}{2\pi \cdot 60 \text{ Hz} \cdot 480 \Omega} = 5,53 \mu\text{F}$$

$$F_R = \frac{1}{2\pi \sqrt{LC}} = \frac{1}{2\pi \sqrt{1,27 \cdot 5,53 \mu\text{F}}} = 60,056 \text{ Hz}$$

$$\text{b) } F_n = \frac{1}{2\pi \sqrt{0,1 \text{ mH} \cdot 50 \text{ nF}}} = 159,16 \text{ kHz}$$