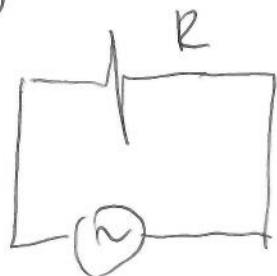


R-Wolgs

5

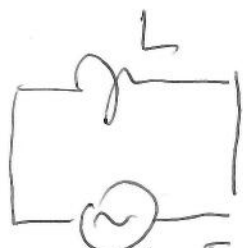
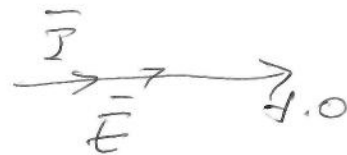


$$e = \bar{E} e^{j\omega t}$$

$$\bar{E} = E$$

$$i(t) = \frac{e(t)}{R} = \frac{E_m}{R} \sin \omega t$$

$$\bar{I} = \frac{\bar{E}}{R}$$



$$e = \bar{E} e^{j\omega t}$$

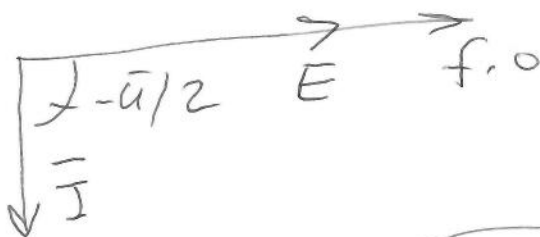
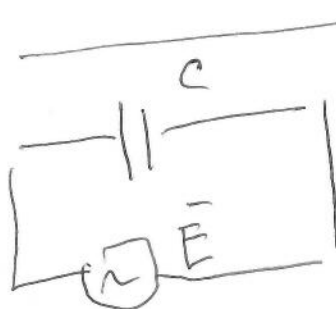
$$L \rightarrow j\omega L$$

$$L \cdot \omega = X_L$$

$$\bar{I} = \frac{\bar{E}}{j\omega L} = \frac{E}{+j\omega L} \frac{-j\omega L}{-j\omega L} = \frac{-j\omega L E}{\omega^2 L^2}$$

$$= -j \frac{E}{\omega L} = \frac{E}{\omega L} e^{-j\pi/2}$$

$$-j = e^{-j\pi/2}$$



$$\bar{I} = \frac{\bar{E}}{-j\omega C} = \frac{E\omega C}{-j} \frac{j}{j} = jE\omega C$$

$$= jE\omega C = E\omega C e^{j\pi/2}$$

