PROBLEM:
Define $x(t)$ as

$$
x(t)=4 \cos (100 \pi(t-0.0025))+5 \cos (100 \pi(t+0.005)) .
$$

Determine $X$ and $\omega_{0}$ such that we can write $x(t)$ as

$$
x(t)=\Re e\left\{X e^{j \omega_{0} t}\right\}
$$

