$$
x(t)=5 \cos \left(\omega_{0} t+90^{\circ}\right)+7 \cos \left(\omega_{0} t+225^{\circ}\right)+7 \cos \left(\omega_{0} t-45^{\circ}\right)
$$

Simplify $x(t)$ into the standard form: $x(t)=A \cos \left(\omega_{0} t+\phi\right)$. Use phasors to do the algebra, but also provide a plot of the vectors represented by each of the three phasors.

