PROBLEM:

$$
x(t)=2 \cos \left(\omega_{0} t-3 \pi / 2\right)+3 \cos \left(\omega_{0} t+13 \pi / 4\right)+4 \cos \left(\omega_{0} t+\pi / 4\right)
$$

(a) Express $x(t)$ in the form $x(t)=A \cos \left(\omega_{0} t+\phi\right)$ by finding the numerical values of $A$ and $\phi$.
(b) Plot all the phasors used to solve the problem in part (a) in the complex plane.

