A signal $x(t)$ is defined as

$$
x(t)=20 \cos (300 \pi t+\pi / 4)+5 \sqrt{2} \cos (300 \pi t+\pi)+5 \sqrt{2} \cos (300 \pi t-\pi / 2)
$$

(a] Plot the phasor representation of each of the sinusoidal components in $x(t)$ in the complex plane.
(b] Add the three phasors that you plotted in part (a).
(c) Express $x(t)$ in the form $x(t)=A \cos \left(\omega_{0} t+\phi\right)$.

