PROBLEM:

A signal x(t) is defined as

(c) Express x(t) in the form $x(t) = A\cos(\omega_0 t + \phi)$.

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

(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).