## PROBLEM:

Define x(t) as

Define 
$$x(i)$$



- (b) Make two complex plane plots to illustrate how complex amplitudes (phasors) were used to solve part

- of A and  $\phi$ , as well as  $\omega_0$ .

 $x(t) = 2\cos(20\pi t + \pi/6) + 2\sqrt{3}\cos(20\pi(t - 1/30))$ 

(a). On the first plot, show the two complex amplitudes being added; on the second plot, show your

solution as a vector and the addition of the two complex amplitudes as vectors (head-to-tail).

- (a) Use phasor addition to express x(t) in the form  $x(t) = A\cos(\omega_0 t + \phi)$  by finding the numerical values