## PROBLEM:

Define x(t) as

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

of A and  $\phi$ , as well as  $\omega_0$ . (b) Make two complex plane plots to illustrate how complex amplitudes (phasors) were used to solve part

 $x(t) = 3\sqrt{3}\cos(250\pi t - 3\pi/4) + 3\cos(250\pi(t - 0.002))$ 

(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).



