

## PROBLEM:

Define  $x(t)$  as

$$x(t) = 2 \cos(2200\pi t + \pi/6) - 3 \cos(2200\pi t + 11\pi/6) + 2 \cos(2200\pi t + 31\pi/6)$$

- Express  $x(t)$  in the form  $x(t) = A \cos(\omega_0 t + \phi)$  by finding the numerical values of  $A$  and  $\phi$ .
- Plot all the phasors used to solve the problem in part (a) in the complex plane. Show the vector addition.