## PROBLEM:

Define x(t) as

 $x(t) = 5\cos(\omega_0 t + 3\pi/2) + 4\cos(\omega_0 t + 2\pi/3) + 4\cos(\omega_0 t + \pi/3)$ 

(b) Plot all the phasors used to solve the problem in part (a) in the complex plane.

(a) Express x(t) in the form  $x(t) = A\cos(\omega_0 t + \phi)$  by finding the numerical values of A and  $\phi$ .