PROBLEM:

Define x(t) as

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

 $x(t) = 2\cos(\omega_0 t - 3\pi/2) + 3\cos(\omega_0 t + 13\pi/4) + 4\cos(\omega_0 t + \pi/4)$

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