PROBLEM:

Define $x(t)$ as

$$x(t) = 6\cos(7\pi t + 5\pi/4) + 8\cos(7\pi t - \pi/4)$$

(a) Express $x(t)$ in the form $x(t) = A\cos(\omega_0 t + \phi)$ by finding the numerical values of A and ϕ, as well as ω_0.

(b) Plot all the complex amplitudes (phasors) as vectors in the complex plane in order to show how vector addition was used to solve part (a)