PROBLEM:

Define $x(t)$ as

$$x(t) = 7\cos(\omega_0 t + 3\pi/4) + 10\cos(\omega_0 t + \pi/2)$$

(a) Express $x(t)$ in the form $x(t) = A\cos(\omega_0 t + \phi)$

(b) Find a complex-valued signal $z(t)$ such that $x(t) = \Re e\{z(t)\}$.