## PROBLEM:

Simplify the following and give the answer as a single sinusoid: 
$$x(t) = A\cos(\omega t + \phi)$$
. Draw the vector

(b)  $x_b(t) = 7\cos(377t + 3\pi/4) + 7\cos(377t + \pi/4)$ 

- diagram of the complex amplitudes (phasors) to show how you obtained the answer.
- (a)  $x_a(t) = 2\cos(222\pi t) \sin(222\pi t)$