PROBLEM:

Define x(t) as

$$x(t) = \sqrt{2}\cos(10\pi(t+.05)) + \cos(10\pi t - 3\pi/4)$$

- (a) Use phasor addition to 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) Make two complex plane plots to illustrate how complex amplitudes (phasors) were used to solve part (a). On the first plot, show the two complex amplitudes being added; on the second plot, show your solution as a vector and the addition of the two complex amplitudes as vectors (head-to-tail).

Two vectors here.

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Head-to-tail plot here.

