PROBLEM:

Define x(t) as

(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

 $x(t) = 4\cos(20\pi(t + .075)) + 4\sqrt{3}\cos(20\pi t + 2\pi/3)$

solution as a vector and the addition of the two complex amplitudes as vectors (head-to-tail).

Two vectors here.

Head-to-tail plot here.

