PROBLEM:

Define x(t) as

$$x(t) = \Re\left\{2e^{j2\pi/3}e^{j2\pi t} + \sqrt{6}e^{j2\pi(t-0.375)}\right\} = \Re\left\{Xe^{j2\pi t}\right\}$$
(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 .

of A and ϕ , as well as ω_0 . (b) Fill in the MATLAB statements that will compute the complex phasor X from which the numerical values of A and ϕ can be computed.

as vectors (head-to-tail). Use appropriate scale on the grid below. Two vectors here. Head-to-tail plot here. imaginary part

