PROBLEM:

Sinusoidal Signal: $x(t) = A \cos(\omega t + \phi)$

 $x(t) = A\cos(\omega_0 t + \phi)$

 ω_0 , and $-\pi < \phi \leq \pi$ in the representation

above or make your own axes covering the same time interval.

(b) The signal x(t) in part (a) can be written as the real part of a complex exponential. Determine Z for the complex signal z(t) = Ze^{jω0t} such that x(t) = Re{z(t)}.
(c) Sketch the signal y(t) = 3x(t + 0.005), where x(t) is the signal from part (a). Use the axes provided

t (time in sec)

(a) The above figure shows a plot of a sinusoidal wave x(t). From the plot, determine the values of A,