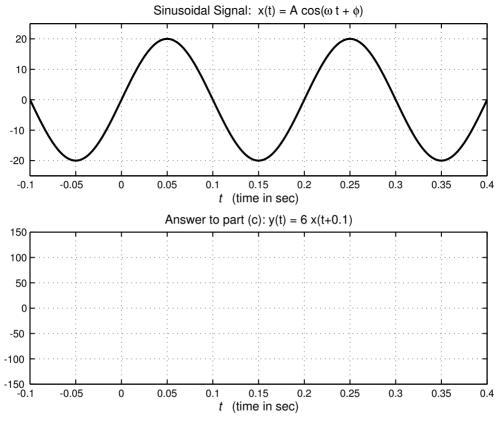
PROBLEM:



(a) The above figure shows a plot of a sinusoidal wave x(t). From the plot, determine the values of A, ω_0 , and $-\pi < \phi \le \pi$ in the representation

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

Where appropriate, be sure to indicate the units of the sinusoidal signal parameters.

- (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 $z(t) = Ze^{j\omega_0 t}$ such that $x(t) = \Re e\{z(t)\}$.
- (c) Sketch the signal y(t) = 3x(t + 0.005), where x(t) is the signal from part (a). Use the axes provided above or make your own axes covering the same time interval.