PROBLEM:

x[n] and plots it. Unfortunately the plot does not have its time axis labeled properly.

Suppose that MATLAB is used to plot a sinusoidal signal. The following MATLAB code generates a signal

$$xx = 9*cos(2*pi*Fo*tt + pi/2);$$

 $stem(xx)$ %<--- OOPS! there is no time axis

- - (a) Make a plot of the signal—either sketch it or do it via MATLAB.
 - (b) For the plot above, determine the correct formula for the discrete-time signal in the form:

$$x[n] = A\cos(\hat{\omega}n + \phi)$$

(c) EXPLAIN how aliasing affects the plot that you see.