PROBLEM:

Suppose that MATLAB is used to plot a sinusoidal signal. The following MATLAB code generates the signal and makes the plot. Draw a sketch of the plot that will be done by MATLAB. Determine the amplitude (*A*), phase (ϕ), and period of the sinusoid and label the period on your plot.

```
dt = 0.001;
tt = -.05 : dt : .15;
Fo = 8;
Z =sqrt(2)*(1-j);
xx = real( Z*exp( 2j*pi*Fo*tt ) );
plot( tt, xx ),    grid
title( 'SECTION of a SINUSOID' ),    xlabel('TIME   (sec)')
```