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.

- Fo = 50; td = .005
- dt = 0.0001;
- tt = -.01 : dt : .04;
- Z =20;
- xx = real(Z*exp(j*2*pi*Fo*(tt + td)));
- plot(tt, xx), grid
- title('SECTION of a SINUSOID'), xlabel('TIME (sec)')