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.

```matlab
Fsamp = 5000;
T = 20/1000;
tt = 0 : (1/Fsamp) : T;
Fo = 9800;
xx = 6*cos( 2*pi*Fo*tt  - pi/4 );
plot( tt, xx ),   grid
title( 'SECTION of a SINUSOID' )
xlabel('TIME   (sec)')
```

EXPLAIN how aliasing affects the plot that you see.