PROBLEM:

The intention of the following MATLAB program was to plot ten cycles of a 900 Hz sinusoid, but it has a bug.

```
Fo = 900;
Period = 1/Fo;
delta = 0.001;
tt = 0 : delta : (10*Period);
j = sqrt(-1);
xx = real( exp( j*(2*pi*Fo*tt  - pi/2) ) );
plot( tt, xx ),    grid
xlabel('TIME    (sec)')
```

(a) Draw a sketch of the plot that will be done by MATLAB. EXPLAIN how aliasing or folding affects the plot that you see. In particular, how many periods do you observe?

(b) Determine an acceptable value of delta to get a *smooth* plot of the desired 900 Hz signal.