PROBLEM:

plot(tt,xx)

component.

The following MATLAB program makes a plot of a "sine-times-sine" signal:

```
tt = 0:0.01:3;
xx = sin(16*pi*tt) .* sin(pi*tt);
```

(a) Make a sketch of the plot that will be done by MATLAB. Label the time axis carefully.

(b) The "spectrum" diagram gives the frequency content of a signal. Draw a sketch of the spec-

trum of the signal represented by xx. Label the frequencies and complex amplitudes of each