**Precalculus Worksheet on Envelopes and Asymptotes**

Directions: Use the *2007* *Microsoft Word Math Add-In* to plot in two-dimensions the following graphs. Use the “*Show”* command to plot more than two multiple equations/inequalities simultaneously.

1. Find and label all of the asymptotes for each graph below.

A

B

C

D

E

F

G

2. Find and label the amplitude of each graph below.

A

B

C

3. Find and label each envelope for the graphs below. The envelope is the boundary of the region filled by the curves.

A

B

C

4. Graph each of the following functions.

A

B

C

**Notes**

**Examples Using the “*PlotEq”* and “*Show”* Commands**

**Example 1:** Graph .



**Example 2**: Graph the following three functions simultaneously using the “*Show”* command.

The input is:

