## Lab 0 Assignment

Due on May 15th on Blackboard by 5pm.
(1) For the following problems start a diary and turn in the print out as well as the plot.
(2) Let

$$
A=\left(\begin{array}{ccc}
2 & 3 & 4 \\
4 & 6 & 8 \\
6 & 9 & 12
\end{array}\right) \quad B=\left(\begin{array}{ccc}
4 & 1 & 6 \\
7 & 2 & 7 \\
3 & 0 & 9
\end{array}\right)
$$

(a) Calculate AB .
(b) Calculate A times B componentwise.
(3) Let $f(x)=2 x+1, g(x)=\sqrt{|x+1|}, h(x)=x^{2}$. Plot these using input values from -10 to 10 with 200 equally spaced points. All functions should be a different color and style (use the command "help plot" to find the plot options for different colors and styles.) Be sure to add a legend to your plot.
Please only printout the pertinent parts of the diary. I don't need to see all your mistakes. You can edit the diary after you double click on it. This will also save a lot of paper. Make sure you homework is STAPLED together with your name, section number, and lab number on the top of the front page.

