## Tutorial on Linear Regression Lines:

TI – 84 Calculator Series and Under

To my knowledge, the TI -84 calculators and under are all practically the same, just a different model each time. What I mean by "under" are the TI models sugh as : TI -82, TI -83, and TI -83 plus and so on. This guide is intended to show you step by step how to set up a plot points, graph them, calculate a linear regression line, and graph the line.

The first thing to do is to make sure that your lists and your equations are clear. To begin with:



The next thing to do is clear out any existing equations. To do this

Press



B

Your screen should look like this:

Y=

The next step is to plug in your x values and y values. To do that, you need to be sure that your x values go in L1 and your y values go in L2.







To calculate the linear regression line or otherwise known as the best fit line.



Note that the number for a is your slope and the number for b is your y intercept.

\*\*Note that when you do a different set of plots, you must repeat the calculation step of the linear regression line; otherwise it will use a previous linear regression line.



\*\* Be sure to clear and reset your calculator's window settings with zoom 6 and clear out your list, equations, and home screen when you're finished.

To plot the linear regression line: