

Instructions For Using Linear Regression Features On The TI83/84+ Calculators

ALWAYS clear out all Memory first thing before starting a new problem!

To make sure your calculator will give your value of r “correlation coefficient”, hit 2^{nd} then 0 (Catalog), and then type down to DiagnosticOn so that the arrow is pointing at DiagnosticOn and hit ENTER. This should make the value of r pop up on a later screen. Hit 2^{nd} Quit.

To enter values into the Lists Feature, hit STAT, which will again take you to the EDIT screen, hit ENTER, and you should be at the Lists Screen. You are ready to type in your lists of numbers. Use only the columns marked L1 and L2, and make sure both lists have the same amount of entries. Hit 2^{nd} Quit

To set the scatter plot feature, hit 2^{nd} then Y= (Stat Plot), which takes you to the Stat Plot screen. Hit ENTER to go to Plot1. ON should be flashing, now hit ENTER to activate Stat Plot; down arrow to the type line so that the cursor is flashing on the first picture, then hit enter. Everything is set to go! Hit 2^{nd} Quit.

To find the equation and value of r : hit STAT, right arrow over one to CALC, hit 4 (LinReg(ax+b)). The screen that appears should show you LinReg(ax+b). Hit ENTER, and you should see $y=ax+b$, with values for a , b , and r . Ignore r squared. For your answers round these values to two decimal places.

To graph the scatter plot, hit 2^{nd} , Y=, ENTER, then GRAPH. You will most probably need to adjust the WINDOW values if your points do not show up.

To graph the regression line, go to Y=, hit VARS, hit 5, left arrow over two spaces to EQ, hit ENTER, and your equation should be back on you Y= screen. Hit GRAPH, and the line should graph right on top of your scatter plot!

Don't forget to clear out all old info like “Y= and your Lists” before you go to your next problem!