TI-84: Least Squares Regression Line (LSRL)

1. Enter your data in L1 and L2.

Note: Be sure that your Stat Plot is on and indicates the Lists you are using.

2. Go to [STAT] "CALC" "8: LinReg(a+bx). This is the LSRL.

3. For TI-83 and older TI-84:

Enter L1, L2, Y1 at the end of the LSRL.


*For newer TI-84: “Store RegEQ” [VARS] “Y-VARS” “Function” “Y1” [ENTER]
Arrow down to Calculate [ENTER]

4. To view, go to [Zoom] "9: ZoomStat".
TI-84: Correlation Coefficient

1. To view the Correlation Coefficient, turn on "DiaGnosticOn"

[2nd] "Catalog" (above the '0'). Scroll to DiaGnosticOn. [Enter] [Enter] again. You only need to do this once unless you reset your calculator.

2. Now you will be able to see the 'r' and 'r^2' values.

Note: Go to [STAT] "CALC" "8:" [ENTER] to view.
TI-84: Residuals & Residual Plots

1. Add the residuals to L3. There are two ways to add the residuals to a list.

1.1 Method 1:

Go to the main screen. [2nd] "list" [ENTER]. Scroll down and select RESID. [Enter]. [STO->] [2nd] "list". Select "3: L3" [ENTER].

2. Turn off "Y1" in your functions list. Click on the = sign. Press [ENTER]. Press [ENTER] again to get it back.

3. Go to Stat PLots to change the lists in Plot1.

Change the Ylist to L3.

4. To view, go to [ZOOM] "9: ZoomStat".
TI-84: Setting Up a Scatter Plot

1. Go to [2nd] "STAT PLOT". Make sure that only Plot1 is ON. Then go to Plot 1 and choose the Scatter Plot Icon in Type.

Note: Be sure that the lists you will be using are indicated in the Xlist and the Ylist.

2. Go to Y1 and [Clear] any functions.

3. To clear out previous lists, arrow up to L1 (or L2) and clear – do not delete or the entire list will go away! Go to [STAT] [EDIT]. Enter your data in L1 and L2.
4. Then go to [ZOOM] "9: ZoomStat" to see the scatter plot in a "friendly window".

5. Press [TRACE] and the arrow keys to view each data point.
TI-84: Non-Linear Regressions

1. Make sure your Plot 1 is ON. Select the Scatter Plots and the appropriate lists.

   Go to: [2nd] "Stat Plot". [Enter].

2. Clear all functions in [Y=]

3. Input data in L1 and L2.

   Go to [Stat] [Enter] to input data.
4. Graph data points.

Go to: [ZOOM] "9: ZoomSTat".

5. Choose a regression from the list in [Stat] "CALC".

Go to: [STAT] "CALC". Use the arrow keys to select the desired regression. [ENTER]. [2nd] L1, [2nd] L2, [VARS] "YVARS" [ENTER] [ENTER] . Then [ENTER] again.

6. Go to [ZOOM] "9: ZoomSTat" to view the data with the regression curve.