

Doing data regression in the TI-82 or TI-83

Entering the data

- Press **STAT** to get the statistics menu.
- Select **Edit** and press **ENTER**.
- Enter the x-data in L1 and the y-data in L2.

Doing the regression

- Press **STAT** to get the statistics menu.
- Select **CALC** and select the type of regression. For example, **LinReg a+bx**, and press **ENTER**.
- The screen says LinReg; enter **L1** (key 2nd 1) **,** **L2** (key 2nd 2).
- Press **ENTER** and get the answer.

Plotting the data and the regression curve

- Clear the **Y=** of any function and set **WINDOW** according to the data entered.
- Press **STAT PLOT**.
- Select **Plot1**
- Select **On**, Type: (first picture), Xlist: **L1**, Ylist: **L2**.
- Press **GRAPH** and you get the data.

To plot the regression curve:

- Press **Y=** and clear Y1.
- Press **VARΣ**.
- Select **Statistics**, select **EQ**, and select **RegEQ**.
- Press **ENTER** to get Y1= the regression function.
- Press **GRAPH**

To forecast or compute a value

Trace the curve (you may need to change the range in the **WINDOW**), or use **value** function in the **CALC** menu.

Doing data regression in the TI-85

Entering the data

- Press **STAT** to get the statistics menu.
- Press **EDIT** (key F2).
- Select **xStat** and **yStat** and press **ENTER**.
- Enter the x-data and y-data.

Doing the regression

- Press **CALC** in the **STAT** menu (key M1= 2nd F1).
- Select **xStat** and **yStat**.
- Select the type of regression. For example, **LINR** and get the answer.

Plotting the data and the regression curve

- Press **GRAPH**.
- Clear the **Y=** and set **RANGE** according to the data entered.
- Press **STAT**.
- Select **DRAW** in the **STAT** menu.
- Press **CLDRW** in the **DRAW** menu to remove any old graph.
- Press **SCAT** to get a plot of the data.
- Press **DRREG** to get a plot of the latest regression computed.

To forecast or compute a value

- Press **FCST** in the **STAT** menu.
 - Enter the value of X= and move to Y=.
 - Press **SOLVE** to get the value of Y.
- (You can also trace the curve to get a value.)

Doing data regression in the TI-86

Entering the data

- Press **STAT** (key 2nd +) to get the statistics menu.
- Press **EDIT** (key F2).
- Enter the x-data under **xStat** and the y-data under **yStat**.

Doing the regression

- From the home screen, press **STAT**.
- Press **CALC** in the **STAT** menu (key M1= 2nd F1).
- Select the type of regression. For example, **LINR**.
- The screen says **LinR**.
- Press **LIST** (key 2nd -).
- Press **NAMES** in the list menu.
- Press **xStat** (key F2) **↓** **yStat** (key F3).
- Press **ENTER** to get the answer.

Plotting the data and the regression curve

- Press **GRAPH**.
 - Clear the **Y=** and set **WIND** according to the data entered.
 - Press **STAT** and then **PLOT** in the **STAT** menu.
 - Select **Plot1**.
 - Select **On**, Type: (picture), Xlist: **xStat**, Ylist: **yStat** and a type of **Mark**.
 - Press **GRAPH** and **GRAPH** again in the menu, and you get the data.
- (You can also use **SCAT** in the **DRAW** menu of the **STAT** menu without turning on **Plot1**.)

To plot the regression curve:

- Press **STAT**.
 - Press **DRAW** in the **STAT** menu.
 - Press **CLDRW** in the **DRAW** menu to remove any old graph (you may need to press **MORE** to find the command).
 - Press **DRREG** to get a plot of the latest regression computed.
- (You can also plot the regression function similarly as explained for the TI-82/TI-83. You'll find the **VARs** in the **STAT** menu and then **RegEq** after **MORE** in the **VARs** menu.)

To forecast or compute a value

- Press **FCST** in the **STAT** menu (you may need to press **MORE** to find the command).
 - Enter the value of X= and move to Y=.
 - Press **SOLVE** to get the value of Y.
- (You can also trace the curve to get a value.)