

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 the range (press **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 **VAR** in the STAT menu and then **RegEq** after **MORE** in the VAR 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.)