Doing data regression in the TI-85

Entering the data

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

Doing the regression

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

Plotting the data and the regression curve

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

To forecast or compute a value

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

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Doing data regression in the TI-86

Entering the data

- Press \textbf{STAT} (key 2nd +) to get the statistics menu.
- Press \textbf{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) and [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 [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.)