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 [VARS].
- 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 $\boxed{\text{STAT}}$ (key 2nd +) to get the statistics menu.
- Press $\boxed{\text{EDIT}}$ (key F2).
- Enter the x-data under $\text{xStat}$ and the y-data under $\text{yStat}$.

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

Plotting the data and the regression curve
- Press $\boxed{\text{GRAPH}}$.
- Clear the $\boxed{Y=}$ and set $\boxed{\text{WIND}}$ according to the data entered.
- Press $\boxed{\text{STAT}}$ and then $\boxed{\text{PLOT}}$ in the STAT menu.
- Select Plot1.
- Select $\text{On}$, $\text{Type}$: (picture), Xlist: $\text{xStat}$, Ylist: $\text{yStat}$ and a type of Mark.
- Press $\boxed{\text{GRAPH}}$ and $\boxed{\text{GRAPH}}$ again in the menu, and you get the data.
  (You can also use $\boxed{\text{SCAT}}$ in the $\boxed{\text{DRAW}}$ menu of the $\text{STAT}$ menu without turning on $\text{Plot1}$.)
  To plot the regression curve:
  - Press $\boxed{\text{STAT}}$.
  - Press $\boxed{\text{DRAW}}$ in the STAT menu.
  - Press $\boxed{\text{CLDRW}}$ in the DRAW menu to remove any old graph (you may need to press $\boxed{\text{MORE}}$ to find the command).
  - Press $\boxed{\text{DRREG}}$ 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 $\boxed{\text{VARS}}$ in the $\text{STAT}$ menu and then $\boxed{\text{RegEq}}$ after $\boxed{\text{MORE}}$ in the $\text{VARS}$ menu.)

To forecast or compute a value
- Press $\boxed{\text{FCST}}$ in the $\text{STAT}$ menu (you may need to press $\boxed{\text{MORE}}$ to find the command).
- Enter the value of $X\text{=}$ and move to $Y\text{=}$.
- Press $\boxed{\text{SOLVE}}$ to get the value of $Y$.
  (You can also trace the curve to get a value.)