Data regression using the TI's calculators

- **TI 82 and TI 83**
- **TI 85**
- **TI 86**

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

Entering the data

- Press $\boxed{\text{STAT}}$ to get the statistics menu.
- Select **Edit** and press $\boxed{\text{ENTER}}$.
- Enter the x-data in L1 and the y-data in L2.

Doing the regression

- Press $\boxed{\text{STAT}}$ to get the statistics menu.
- Select **CALC** and select the type of regression. For example, **LinReg ax+b**, and press $\boxed{\text{ENTER}}$.
- The screen says LinReg; enter $\boxed{\text{L1}}$ (key 2nd 1) $\boxed{,}$ $\boxed{\text{L2}}$ (key 2nd 2).
- Press $\boxed{\text{ENTER}}$ and get the answer.

Plotting the data and the regression curve

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

To plot the regression curve:

- Press $\boxed{\text{Y=}}$ and clear Y1.
- Press $\boxed{\text{VARS}}$.
- Select **Statistics**, select **EQ**, and select **RegEQ**.
- Press $\boxed{\text{ENTER}}$ to get Y1= the regression function.
- Press $\boxed{\text{GRAPH}}$

To forecast or compute a value

Trace the curve (you may need to change the range in the $\boxed{\text{WINDOW}}$), or use **value** function in the $\boxed{\text{CALC}}$ menu.