Regression on the TI-86
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Keys are written between brackets [ ].
Function key selections are written in *italics*.

1. Enter the data points.
   - Data sets are best entered in the Stat Editor.
   - Press [2nd] [STAT] EDIT. Your screen should look like this:

   ![Data Entry Screen]

   - Clear any existing data in the xStat and yStat columns by using the arrow keys to move the highlight over the word xStat and pressing [CLEAR] [ENTER]. Then do the same to clear the yStat column. The fStat column should contain all 1's.
   - Enter your data in the appropriate xStat and yStat column.
   - When finished press [EXIT].

2. Plot the data (this step may be skipped if desired).
   - Turn on a Stat Plot and configure it to plot the data.
   - Press [2nd] [STAT] PLOT. You will see this screen:

   ![Plot Configuration Screen]

   - Select PLOT1. Use the arrow and [ENTER] keys to edit your next screen to look like this:

   ![Plot Selection Screen]

   - The selections are: *On, xyLINE, xStat, yStat,* □.
3. Perform the regression calculation.
   – Press [2nd] [STAT] CALC.
   – For a linear regression select LinR.
   – LinR is now pasted to the home screen. You must complete the command before pressing [ENTER].
   – Press [2nd] [CATLG-VARS] ALL [2ND] [alpha] [X].
   – Use the down arrow to scroll to xStat and press [ENTER]. xStat is now pasted into the regression command. Press [,].
   – Repeat the last two steps to locate yStat and paste it into the regression command.
   – Press [2nd] [alpha] [Y] [1]. Your regression command should now look like this:

   ![Regression command]

   If it does, press [ENTER].
   – Now your screen should look something like this:

   ![Regression equation]

   The coefficients of a linear equation are displayed. This regression equation has already been pasted into the equation editor (into y1) and is ready to be graphed.
   – Press [GRAPH] GRAPH.

   ![Graphed regression]

   – The menu bar may be removed by pressing [CLEAR]. Restore it by pressing [GRAPH].