

Quadratic regression with the TI-89

1. *Editing data:* NOTE: If you have never performed a regression on this calculator see "Set up the Data Editor" on the other side of this page.

APPS **Data/Matrix Editor** (6) **Current** (1)

To clear old data: Press **▶** or **◀** to place the cursor in the column you want to clear, **2nd F6** (F1)

To enter the new data: Enter the x values in column 1 (c1).

Press **ENTER** after each entry. Press **▶**, **◀**, and **▲** to position the cursor at the top of column 2.

Enter the y values in column 2 (c2). Press **ENTER** after each entry.

2. Calculate the regression equation:

Calc (F5) **▶** **QuadReg** **▼** **alpha C 1** **▼** **alpha C 2**
▶ **▼** (y1(x)) **ENTER** **ENTER** To return to the DATA screen press **ENTER**

3. To see the scatter plot and line of best fit:

Plot Setup (F2) **Define** (F1) **▶** **Scatter** (1) **▼** **alpha C 1** **▼** **alpha C 2**
ENTER **ENTER** **◀** **GRAPH** (F3)

You may need to adjust the viewing window (**◀**, **WINDOW** (F2)) to see the graph.

Start Here... if you have never performed a regression with this calculator.

Set up the Data Editor:

APPS **Data/Matrix Editor** (6) **New** (3) **▶** **Data** (1) **▼**
▼ **alpha**

D (you may enter any alpha character or string of characters here) **ENTER**
ENTER

The next time you perform a regression you may start with step 1 "Editing Data" on the other side of this page.