

Graphing Calculator Regression Analysis

Inputting Data to be used

- Go to **STAT** → Edit
- Once you go to the list, you can press clear to empty the list. You do this by going to the top of the list and highlighting the name of the list, for example L_1 , then press **CLEAR**. **DO NOT PRESS DELETE**
- Select the appropriate list to input your data x-values in L_1 , y values in L_2 , etc. Press **ENTER** after entering each value.
- Once the list is entered, quit.

Graphing the Data Points

- Turn on **STAT PLOT** for the first graph
 - In calculator x list should be: L_1
 - In calculator y list should be: L_2
 - This could vary depending on where your data was stored.
- To graph data points use **zoom** → **9** to get the data to fit in the window.

Regression

- **STAT** → **CALC** → select the type of regression: quadratic, exponential, linear, etc. then press **ENTER**.

- **EXAMPLE:**

Selecting quadratic regression, the screen will read as:

quadreg

- At this point press **VARS** → select **Y VARS** for function y , **press ENTER**, choose function y_1 and **press ENTER**.
- The calculator will now perform regression and enter the function for $y_1 =$
(If r^2 doesn't show, go to catalog and turn diagnostic on.)

Predictions

- Once quadratic is in y_1 in $y_1 = ax^2 + bx + c$ go to home screen.
- **VARS** → **Y VARS** → choose function y_1 and **press ENTER**
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y_1 (#) ENTER

Input the desired x value for a prediction (#)