

PreCalculus Chapter 8 Calculator Help

Make a table of values:

Press **STAT** → **ENTER** and put values into the desired list.

Run a linear regression on values in L_1 and L_2

Press **STAT** and use  to select **CALC**. Scroll down to **LinReg (ax + b)**


(Same steps for Exponential, Power, Quadratic, Logarithmic and Logistic)

Make r and r^2 appear when running linear regression

Press **2nd** → **0** (catalog) → scroll down to **Diagnostic On** → **ENTER**

Place regression equation (from above steps) into Y_1

(Make sure you have run the linear regression before completing these steps)

Press **Y=** → **VAR** → **5** and use  to select **EQ** and press **ENTER**

(The equation should show up in Y_1)

Make list of residuals

(Make sure L_1 and L_2 have the x and y coordinates in them and regression equation is in Y_1)

Press **STAT** → **ENTER** and scroll over to an empty list.

Enter $(L_2 - Y_1(L_1))$ in the empty list

(** Y_1 : Press **VAR** →  → **ENTER** (twice))

Make a list of deviations

(Make sure L_1 and L_2 have the x and y coordinates in them; calculate value of \bar{y})

Press **STAT** → **ENTER** and scroll over to an empty list.

Enter: $(L_2 - \bar{y})$ in the empty list

Find Mean or Sum

2nd → **STAT** → **▶** (3 times), chose mean or sum, then select the desired list

Plot data points (from L_1 and L_2) on graph

Press **2nd** → **Y=** → **ENTER** and select ON

(**Press **ZOOM** → **9** for nice window)

Make a Residual Plot

(Make sure L_1 contains the x-values and L_3 contains the "y-hat"-values)

2nd → **Y=** → **ENTER** and change the Y-List to L_3

- Turn the plot on

- Press **ZOOM** → **9** for nice window