How do I calculate the linear regression on the TI-30X IIS/B or the TI-34 II Explorer Plus?

1-VAR analyzes statistical data from 1 data set with 1 measured variable, x. 2-VAR stats analyzes paired data from 2 data sets with two measured variables x, the independent variable, and y, the dependent variable. Users can enter up to 42 data sets.

Example:

xStat{3,5,8,10}
yStat{7,8,14,18}

To define statistical data points:

• Press [2nd][STAT]. Select 2-VAR and press [ENTER]. The STAT indicator displays.
• Press [DATA]
• Enter 3 for X1.
• Press the down arrow.
• Enter 7 for Y1 and press [ENTER]
• Repeat steps 3 and 4 until all the above data points are entered. Users must press [ENTER] or the down arrow to save the last data point or FRQ value entered. If users add or delete data points, the TI-30X IIS/B or the TI-34 Explorer Plus automatically reorders the list.
• When all points and frequencies are entered, press [STATVAR] to display the menu of variables.
• Use the left arrow until a(linear regression slope), b(linear regression y-intercept), and r(correlation coefficient) are underlined. The results displayed will be the linear regression.

a=1.63
b=-1.10
r=.98