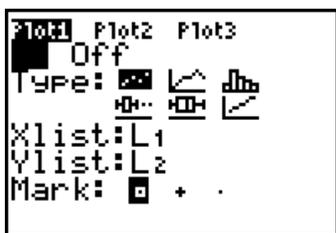


TI-83 Topic #16 – Statplots

Task #1: Graph the following set of data.

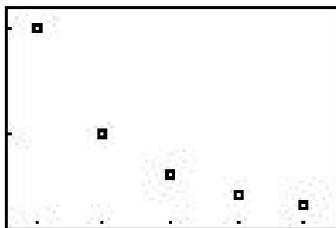
x	1	2	3	4	5
y	10	5	3	2	1.5

Strategy : Press **Y=** and clear any functions that you may currently have stored there. Press **STAT** and select **1: Edit...** If there is any data in list L1, use the up-arrow key to move the cursor on top of the symbols “L1” and press **CLEAR** **ENTER**. This will clear the entire list L1. Repeat the process for list L2. Enter the x-values in list L1 and the y-values in list L2, using your arrow keys to move around the table. Press **2nd STATPLOT** and select **1: Plot 1...** by pressing **ENTER**. Use your arrow keys and the **ENTER** key to get your screen to look like this:



To have the calculator fit an appropriate window to the data, press **ZOOM** and select **9: ZoomStat**.

Conclusion: Your graph should look exactly like this:



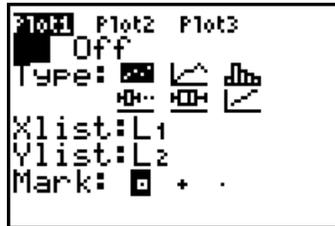
(You can trace the data points and change the window for the data set just as you can for functions.)

Task #2: Graph the following set of data along with the defining function $P = 0.5T$.

Temperature (⁰ F)	40	50	60	70	80	90
Pressure (psi)	19	26	30	35	39	45

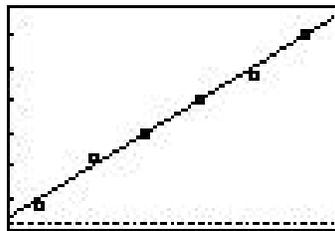
Strategy : This time we want to graph a function on top of the data points. Press **Y=** and clear any functions stored there. Enter our function as $Y1=0.5x$. As we did above, press **STAT** and select **1: Edit...** To clear the data in list L1, use the arrow keys to move the cursor on top of the symbols “L1”

and press **CLEAR** **ENTER** . This will clear the entire list L1. Repeat the process for list L2. Enter the temperatures in list L1 and the pressures in list L2. Press **2nd** **STATPLOT** and select **1: Plot 1...** by pressing **ENTER** . Use your arrow keys and the **ENTER** key to get your screen to look like this (it probably already does):



To have the calculator fit an appropriate window to the data, press **ZOOM** and select **9: ZoomStat**.

Conclusion: Your graph should look identical to this:



(You can now trace either the data points or the function; to switch from one to the other, use your down arrow key.)

You try: Graph the following set of data along with the defining function

$$P = 75 (1.7)^t .$$

Conclusion

Time (years)	0	1	2	3	4	5
Population (thousands)	75	127	216	368	626	980

Note: After you finish your statplot, turn it off by pressing **2nd** **STAT PLOT** , select **1: Plot1**, move the cursor right to “OFF”, and press **ENTER** to turn the plot off. Press **2nd** **QUIT** .

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