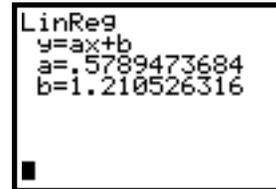


Warm Up 2: Linear Regression

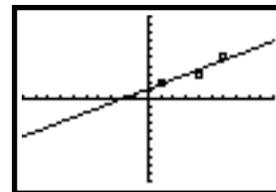
Objective: Find the best-fitting line for a set of data points using the TI-83.

1. Press **Y=** and **CLEAR** to clear the Y_1 prompt. Press **V** and **CLEAR** to clear additional prompts. Enter the data points in a statistics data set, as shown in Warm Up 1.
1. Enter the data points (1,2), (4,3), and (6,5).



```
LinReg
y=ax+b
a=.5789473684
b=1.210526316
```

2. Calculate the best-fitting line for the data points by pressing **STAT > 4 ENTER**. Notice that the line $y = ax + b$ is displayed. Enter the equation for Y_1 by pressing **Y= CLEAR VARS 5 > > 1**.
3. Turn on the scatter plot as shown in Warm Up 1 and view the points and the best-fitting line by pressing **ZOOM 6**. Remember to turn off the scatterplot.



Practice 2:

Find and graph the best-fitting lines. Sketch what you see in the space provided.

1. (-1,2), (3,4), (5,6)

2. (1,5), (2,4), (3,2)

3. (1,-2), (2,1), (4,3)

4. (-2,-2), (-1,1), (2,5)