

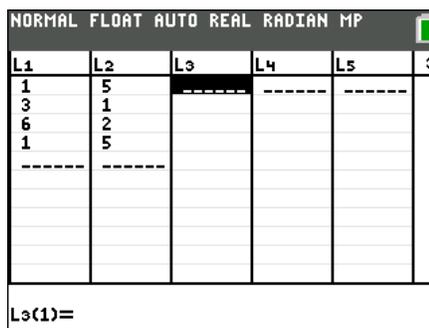


**Part 1 – Move Those x's**

Press **[STAT]** and select **1:Edit...** to enter the numbers shown at the right. Use the arrow keys to move from one list to another.

List L1 represents the x-values.

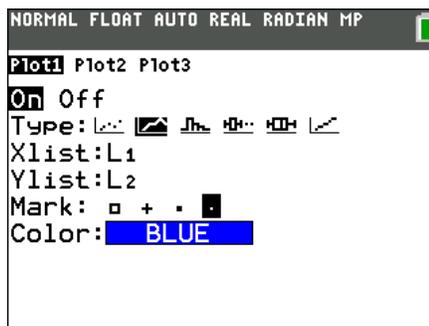
List L2 represents the y-values.



Press **[2nd]** **[STAT PLOT]** and select **Plot1**. Match the settings as shown at the right.

Press **[ZOOM]** and select **ZStandard** to view the graph.

Press **[2nd]** **[STAT PLOT]** again and select **Plot2**. Use the same settings as Plot1, but for **Xlist** select L3 and for **Ylist** select L4 and leave the Color in **Plot2 RED**.



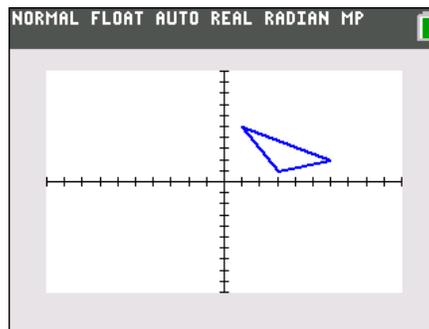
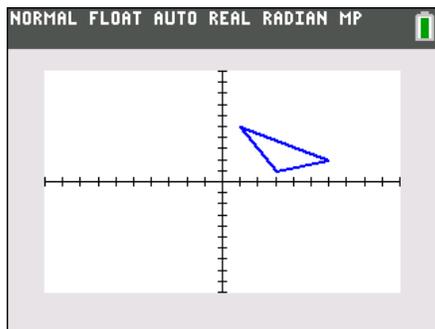
Press **[2nd]** **[QUIT]** to return to the home screen. For Exercises 1 and 2, enter both expressions and then press **[GRAPH]**. Sketch the graph. To enter the arrow, press **[STO>]**. **Note:** To enter the names of the lists (L1, L2, L3, L4), press **[2nd]** **[LIST]** and select the appropriate name.

1.  $L1 + 3 \rightarrow L3$

2.  $L1 - 3 \rightarrow L3$

L2  $\rightarrow$  L4

L2  $\rightarrow$  L4



3. How did the x-values change? \_\_\_\_\_

\_\_\_\_\_

4. How did the triangle move? \_\_\_\_\_

\_\_\_\_\_

5. What happens when a number is added to or subtracted from the x-values of a figure?

\_\_\_\_\_

\_\_\_\_\_

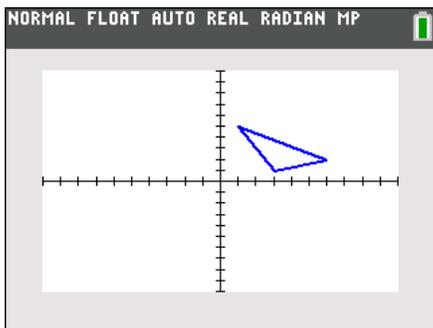


**Part 2 – Move Those y’s**

Return to the home screen. For Exercises 6 and 7, enter both expressions and then press **GRAPH**. Sketch the graph.

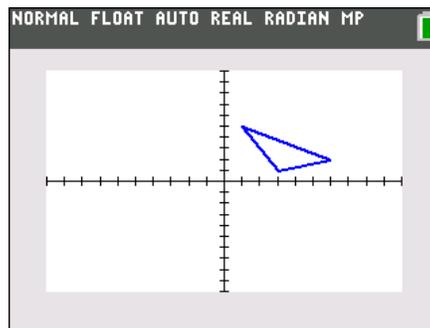
6.  $L1 \rightarrow L3$

$L2 + 5 \rightarrow L4$



7.  $L1 \rightarrow L3$

$L2 - 5 \rightarrow L4$



8. How did the y-values change? \_\_\_\_\_

9. How did the triangle move? \_\_\_\_\_

10. What happens when a number is added to or subtracted from the y-values of a figure?

\_\_\_\_\_

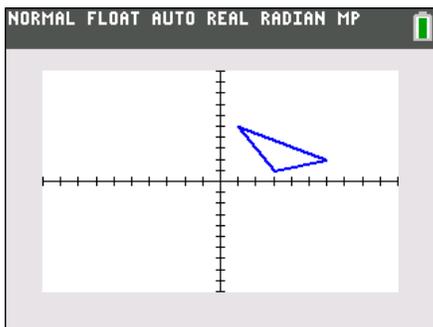
\_\_\_\_\_

**Part 3 – Change That Shape**

Return to the home screen. For Exercises 11 and 12, enter both expressions and then press **GRAPH**. Sketch the graph.

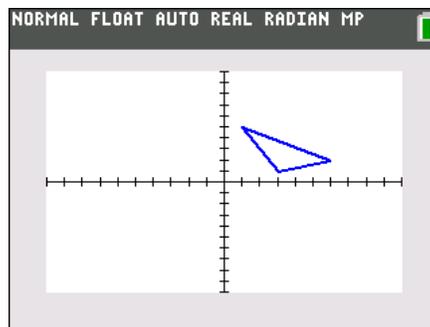
11.  $2 * L1 \rightarrow L3$

$2 * L2 \rightarrow L4$



12.  $\frac{1}{2} * L1 \rightarrow L3$

$\frac{1}{2} * L2 \rightarrow L4$





# Move It!

## Student Activity

Name \_\_\_\_\_

Class \_\_\_\_\_

13. How did the  $x$ -values and the  $y$ -values change? \_\_\_\_\_

\_\_\_\_\_

14. How did the triangle change? \_\_\_\_\_

\_\_\_\_\_

15. What happens when a number between 0 and 1 or greater than 1 is multiplied by the  $x$ - and  $y$ -values of a figure? \_\_\_\_\_

\_\_\_\_\_