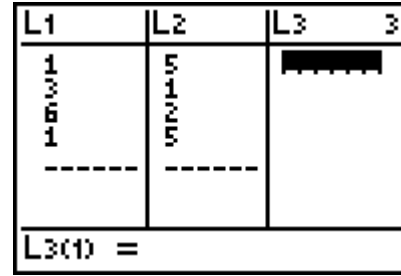


Problem 1 – Move Those x’s

Press **[LIST]** 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]** **[Y=]** and select **Plot1**. Match the settings as shown at the right.

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



Press **[2nd]** **[Y=]** again and select **Plot2**. Use the same settings as Plot1, but for **Xlist** select L3 and for **Ylist** select L4.

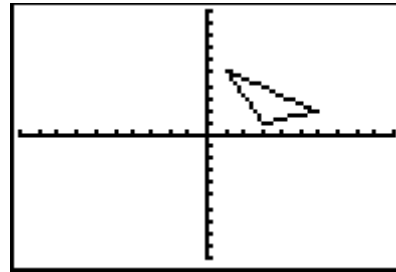
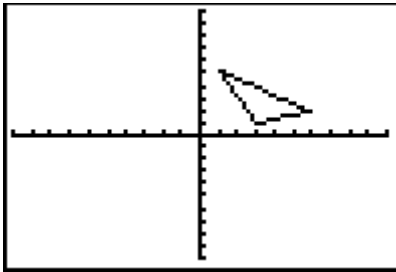
Press **[2nd]** **[MODE]** to return to the home screen. For Exercises 1 and 2, enter both expressions and then press **[GRAPH]**. Sketch the graph. To enter the arrow, press **[STO]**.

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? _____

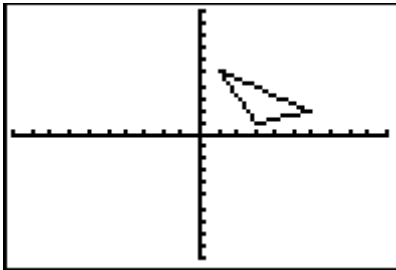
5. What happens when a number is added to or subtracted from the x-values of a figure? _____

Problem 2 – Move Those y’s

Return to the home screen. For Exercises 6, 7, 11, and 12 enter both expressions and then press **[GRAPH]**. Sketch the graph.

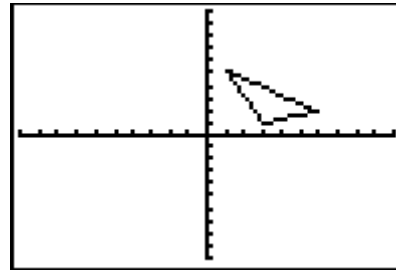
6. $L1 \rightarrow L3$

$L2 + 5 \rightarrow L4$



7. $L1 \rightarrow L3$

$L2 - 5 \rightarrow L4$

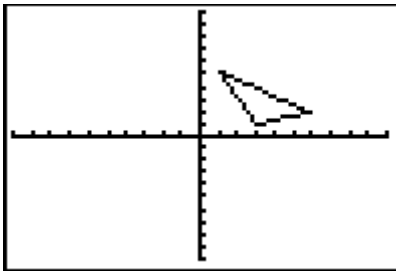


8. How did the y-values change? _____
9. How did the triangle move? _____
10. What happens when a number is added to or subtracted from the y-values of a figure? _____

Problem 3 – Change That Shape

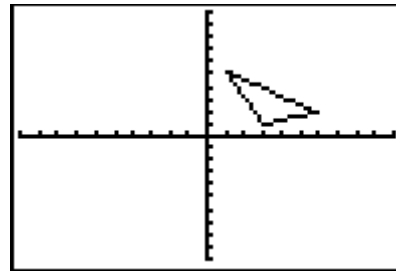
11. $2 * L1 \rightarrow L3$

$2 * L2 \rightarrow L4$



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

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



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? _____