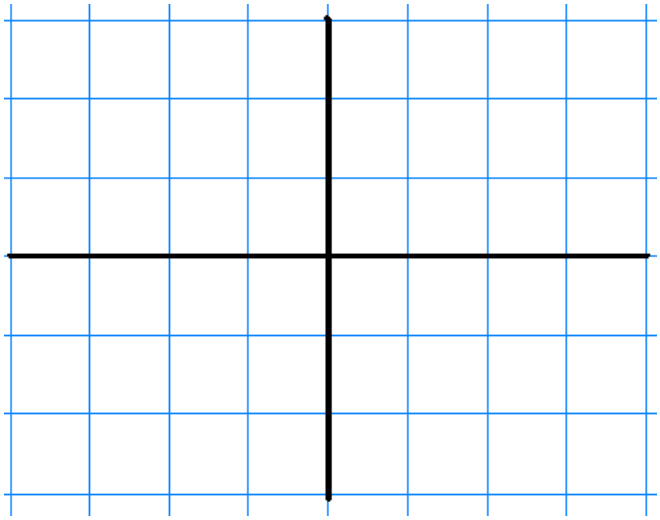
Let's Reflect



A : (,)

B : (,)

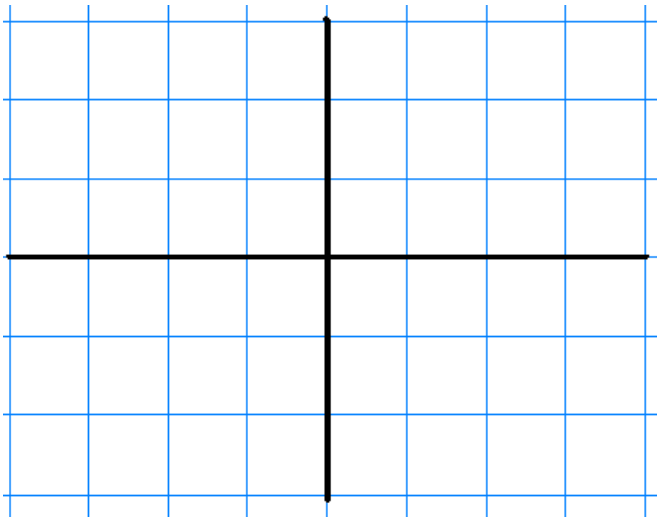
C : (,)

PART I

- ☐ Draw a triangle in Quadrant I.
- ☐ Label the three vertices A, B, and C.
- ☐ Turn your calculator on and open up the lists by pressing LIST and ENTER.
- ☐ In L1 place the x coordinates for the three vertices. Repeat the x coordinate for A.
- ☐ In L2 place the y coordinates for the three vertices. Repeat the y coordinate for B.
- ☐ Set up a plot to do a connected line graph for L1 vs. L2.
- ☐ Press Zoom: 8 Decimal. What do you see? If you don't see your triangle, recheck the Plot Set Up and the names of the coordinates.

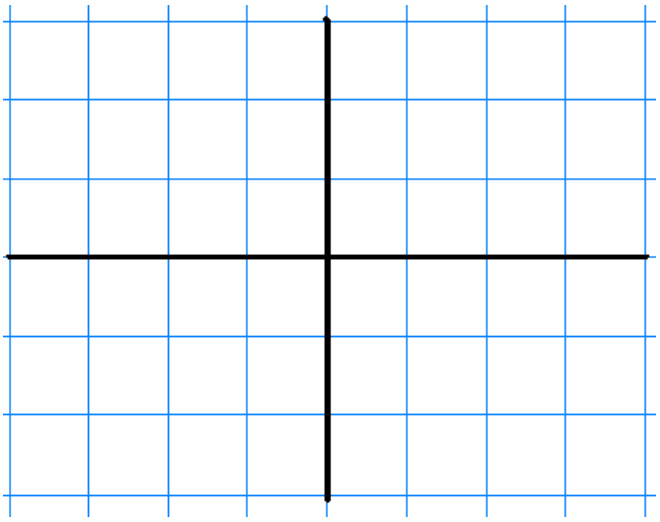
PART II

- ☐ Return to the lists. This time enter the opposite values of L2 in L3.
- ☐ Set up a second plot for L1 vs. L3. Make it a line graph also.
- ☐ Press Graph. What do you see? How did this happen? Can you describe why this happened to your triangle? Draw a copy of the new triangle in the graph below.



PART III

- ☐ Return to the lists. This time enter the opposite values of L1 in L4.
- ☐ Set up a third plot for L4 vs. L2. Make it a line graph also.
- ☐ Press Graph. What do you see? How did this happen? Can you describe why this happened to your triangle? Draw a copy of the new triangle in the graph below.



PART IV

- ☐ Set up a third plot for L4 vs. L3. Make it a line graph also.
- ☐ Press Graph. What do you see? How did this happen? Can you describe why this happened to your triangle? Draw a copy of the new triangle in the graph below