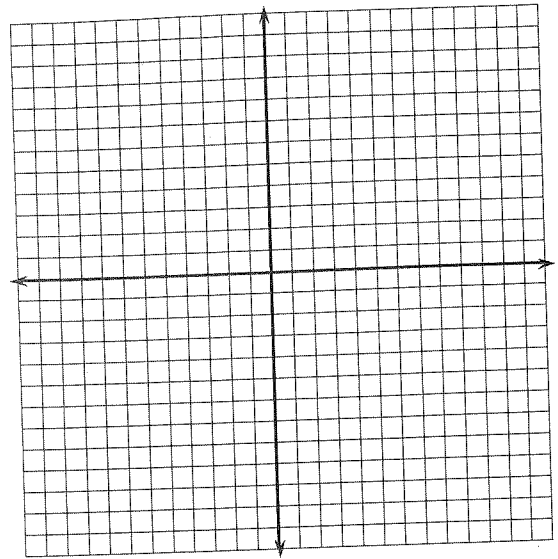


Problem Set

1. Locate a point in Quadrant IV of the coordinate plane. Label the point A , and write its ordered pair next to it.

- a. Reflect point A over an axis so that its image is in Quadrant III. Label the image B , and write its ordered pair next to it. Which axis did you reflect over? What is the only difference in the ordered pairs of points A and B ?
- b. Reflect point B over an axis so that its image is in Quadrant II. Label the image C , and write its ordered pair next to it. Which axis did you reflect over? What is the only difference in the ordered pairs of points B and C ? How does the ordered pair of point C relate to the ordered pair of point A ?
- c. Reflect point C over an axis so that its image is in Quadrant I. Label the image D , and write its ordered pair next to it. Which axis did you reflect over? How does the ordered pair for point D compare to the ordered pair for point C ? How does the ordered pair for point D compare to points A and B ?



2. Bobbie listened to her teacher's directions and navigated from the point $(-1, 0)$ to $(5, -3)$. She knows that she has the correct answer, but she forgot part of the teacher's directions. Her teacher's directions included the following:

"Move 7 units down, reflect about the ___?___-axis, move up 4 units, and then move right 4 units."

Help Bobbie determine the missing axis in the directions, and explain your answer.