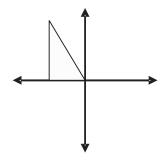
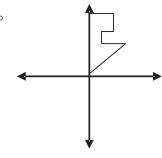
11.2

Using the origin as the center of rotation, rotate the figure counterclockwise the given number of degrees.

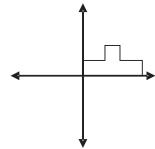
1. 90°



2. 180°

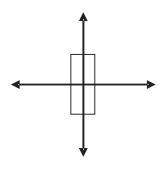


3. 270°

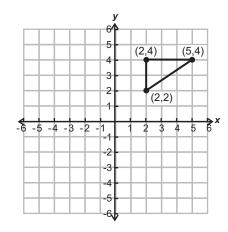


4

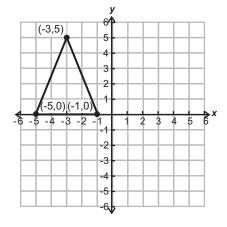
90°

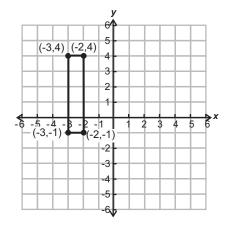


5. 270°



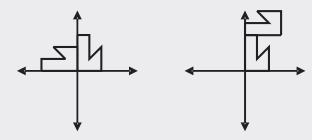
6. 180°





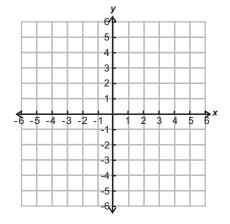
Journal

- 1. How is a rotation like a translation? How is it different?
- 2. Consider the point located at (4, 8). Explain how you know what the vertices will be when the point is rotated 90°, 180°, and 270° counterclockwise about the origin.
- 3. How are the two rotations below the same? How are they different?



Cumulative Review

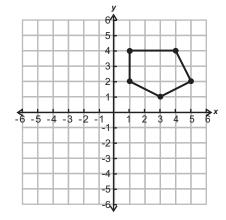
1. Graph the line segment whose endpoints are (-4, -1) and (3, -4). Find the length of the segment to the nearest tenth of a unit.



- **2.** Find the slope of the line segment in Problem 1.
- **3.** What is distance between points *A* and *B* on a number line if the coordinate of *A* is -14 and the coordinate of *B* is 29?

4. A quadrilateral with vertices at (-4, 5), (2, 1), (0, -6), and (-4, 0) is translated five units right and three units down. What are the coordinates of the translated vertices?

5. Reflect the figure across the *x*-axis. List the vertices of the reflected figure.



Additional Work Area

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