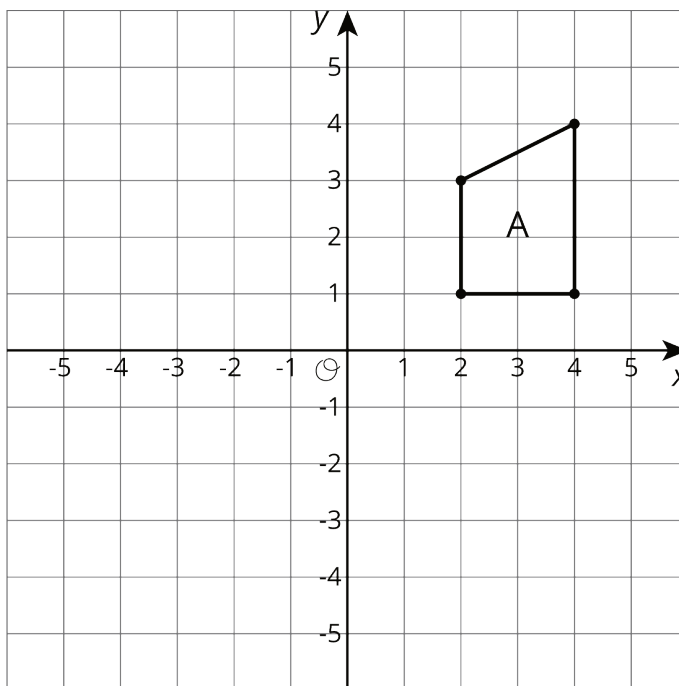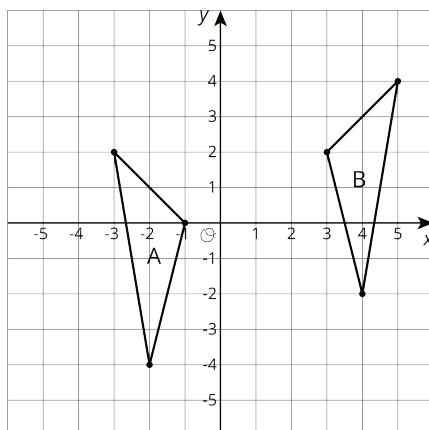# Lesson 6 Practice Problems

1. Here is Trapezoid A in the coordinate plane:
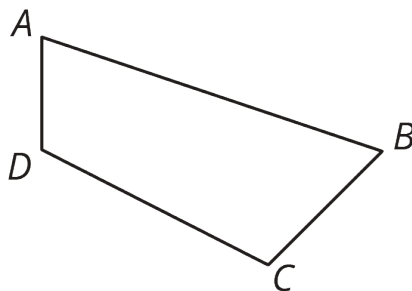

a. Draw Polygon B, the image of A, using the y-axis as the line of reflection.

b. Draw Polygon C, the image of B, using the x-axis as the line of reflection.

c. Draw Polygon D, the image of C, using the x-axis as the line of reflection.

2. The point $(-4, 1)$ is rotated 180 degrees counterclockwise using center $(-3, 0)$. What are the coordinates of the image?

A. $(-5, -2)$

B. $(-4, -1)$

C. $(-2, -1)$

D. $(4, -1)$

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3. Describe a sequence of transformations for which Triangle B is the image of Triangle A.

4. Here is quadrilateral $ABCD$.

Draw the image of quadrilateral $ABCD$ after each transformation.

    a. The translation that takes B to D.

    b. The reflection over segment BC.

    c. The rotation about point A by angle DAB, counterclockwise.

(From Unit 1, Lesson 2.)

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