

Independent Practice

11.1

NAME _____

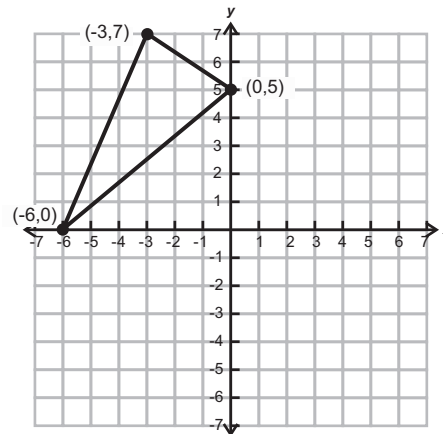
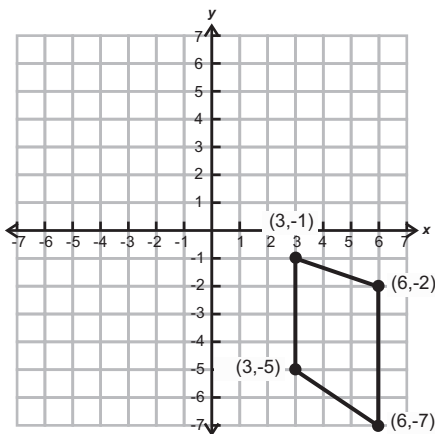
Module 11 Transformation of Shapes
Lesson 1 Translations and Reflections

1. The point located at $(0, -3)$ is translated two units left. What are the coordinates of the translated point?
2. The point located at $(-4, -3)$ is translated three units up. What are the coordinates of the translated point?
3. The point $(7, -5)$ is translated six units left and five units up. What are the coordinates of the translated point?

Translate the figure using the given motion rule.

4. $(x, y) \rightarrow (x - 2, y + 4)$

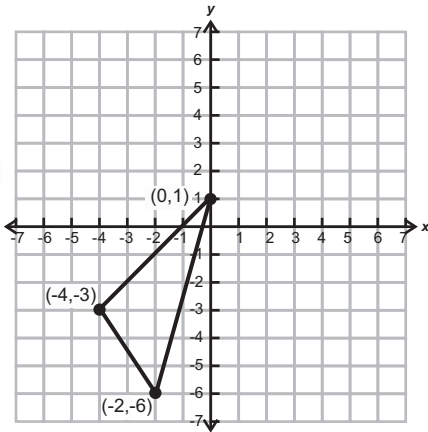
5. $(x, y) \rightarrow (x + 1, y - 7)$



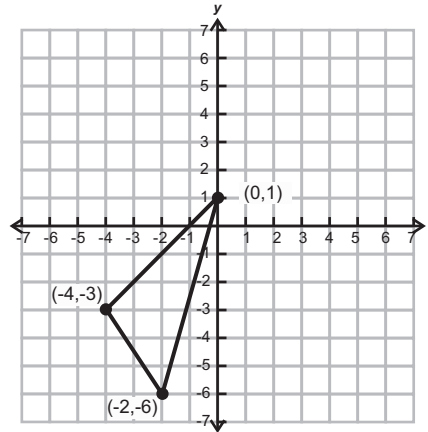
6. The point located at $(6, -1)$ is reflected across the x -axis. What are the coordinates of the translated point?
7. The point located at $(-2, 8)$ is reflected across the x -axis and then is reflected across the y -axis. What are the coordinates of the translated point?

Reflect the figure across the given axis.

8. y -axis



9. x -axis



Journal

1. How are translations and reflections the same? How are they different?
2. Explain how you know which coordinates move in which direction when translating a point in the coordinate plane.
3. When reflecting a point across an axis, explain how you know which coordinate becomes the opposite and which coordinate stays the same.

Cumulative Review

1. Draw a concave pentagon.
2. Draw a regular hexagon.
3. Draw a cylinder.



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4. A circle has a diameter of 125 feet. What is the radius of the circle?

5. In which quadrant is the x -coordinate of any point positive and the y -coordinate of any point negative?

6.
 - a. How many faces does a triangular pyramid have?
 - b. How many vertices does a triangular pyramid have?
 - c. How many edges does a triangular pyramid have?

7. Draw two different nets of a square pyramid.

Additional Work Area