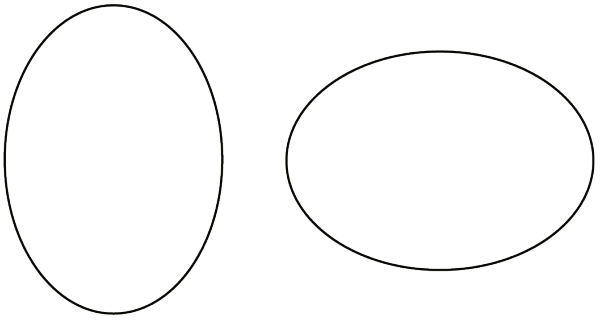
Lesson 11 Practice Problems

1. If two rectangles have the same perimeter, do they have to be congruent? Explain how you know.

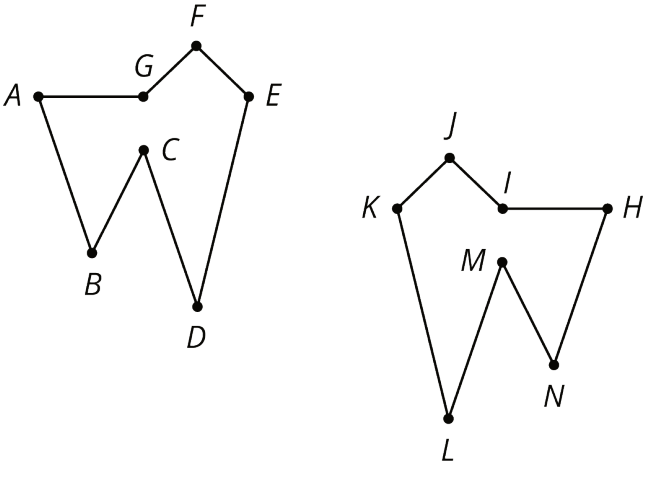
2. Draw two rectangles that have the same area, but are *not* congruent.

3. For each pair of shapes, decide whether or not the two shapes are congruent. Explain your reasoning.

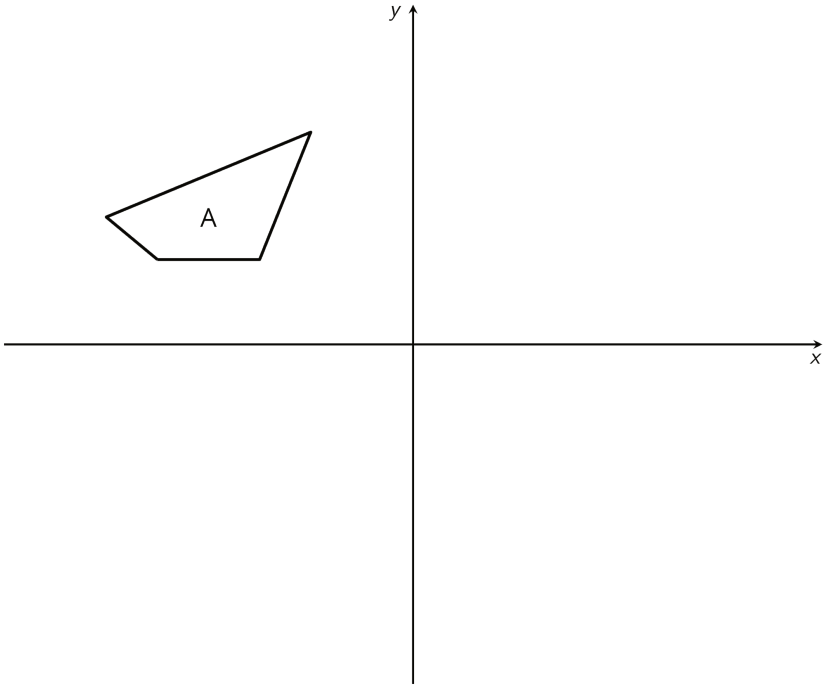
   a.



   b.



4. a. Reflect Quadrilateral A over the x-axis. Label the image quadrilateral B. Reflect Quadrilateral B over the y-axis. Label the image C.



b. Are Quadrilaterals A and C congruent? Explain how you know.

5. The point $(-2, -3)$ is rotated 90 degrees counterclockwise using center $(0, 0)$. What are the coordinates of the image?

A. $(-3, -2)$

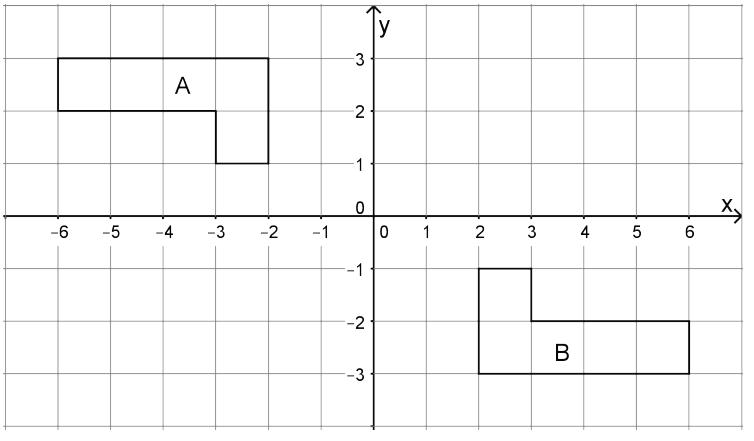
B. $(-3, 2)$

C. $(3, -2)$

D. $(3, 2)$

(From Unit 1, Lesson 6.)

6. Describe a rigid transformation that takes Polygon A to Polygon B.



(From Unit 1, Lesson 7.)