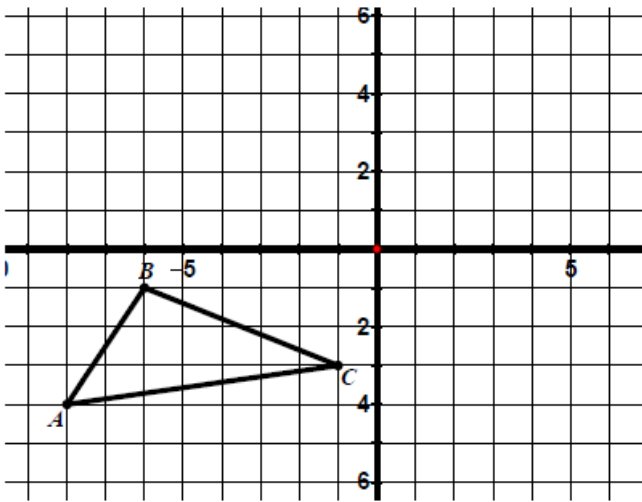
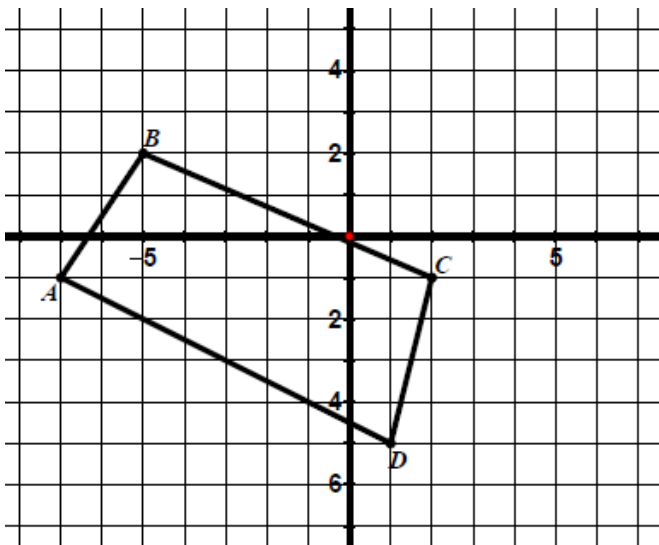


1. Reflect  $\triangle ABC$  across the  $x$ -axis and label the image.



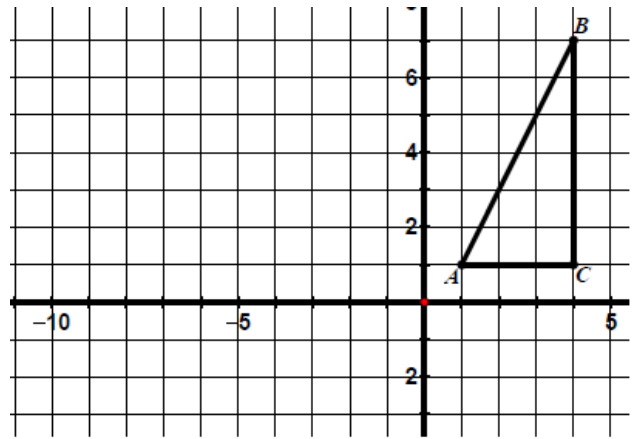
a. Write a coordinate rule to represent this transformation.

2. Reflect  $ABCD$  across the  $y$ -axis and label the image.



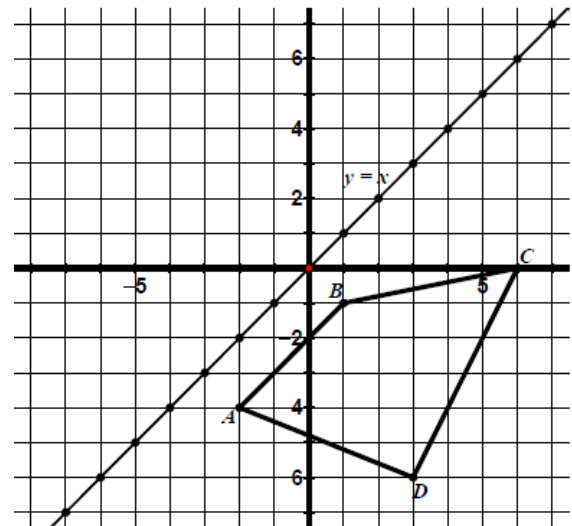
a. Write a coordinate rule to represent this transformation.

3. Reflect  $\triangle ABC$  across the line  $x = -3$  and label the image.



a. Write a coordinate rule to represent this transformation.

4. Reflect  $ABCD$  across the line  $y = x$ .



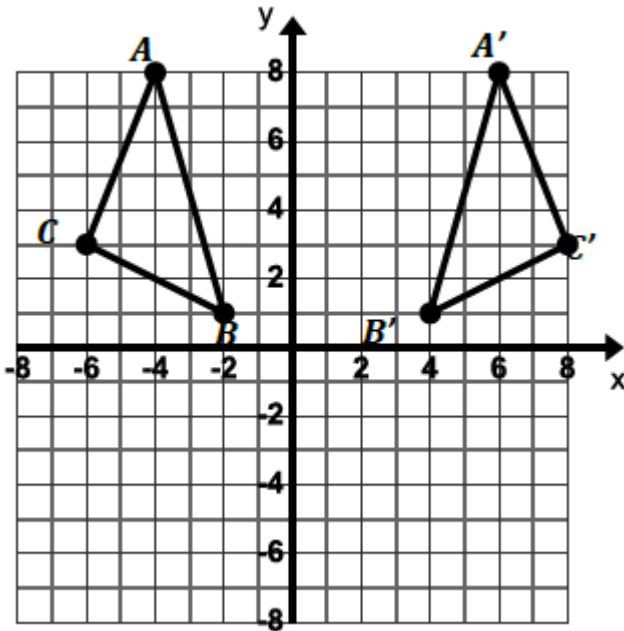
a. Write a coordinate rule to represent this transformation.

5. For each of the following:

- Draw the line of reflection that would reflect the pre-image onto the image.
- Find the equation for the line of reflection.
- Write a coordinate rule to describe the reflection.

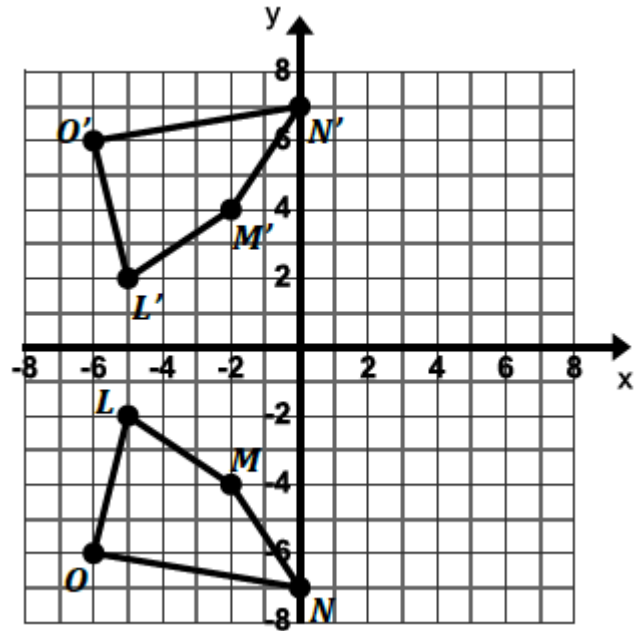
A. Equation \_\_\_\_\_

Coordinate Rule: \_\_\_\_\_



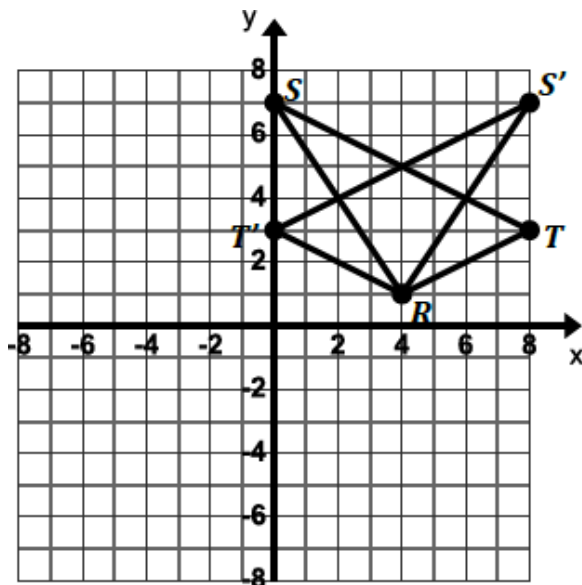
B. Equation \_\_\_\_\_

Coordinate Rule: \_\_\_\_\_



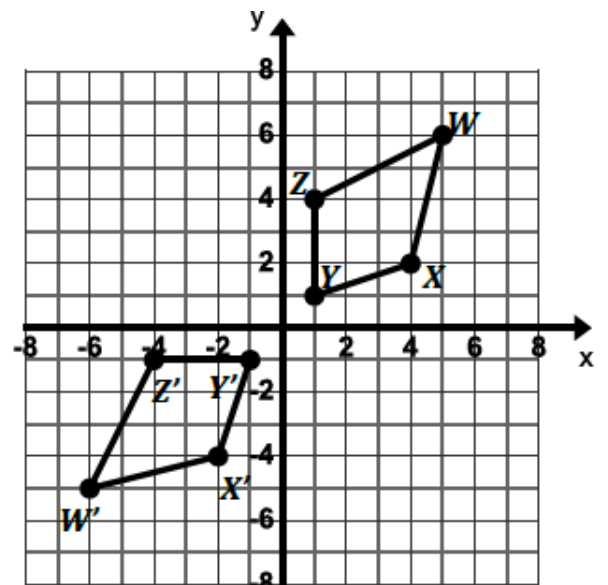
C. Equation \_\_\_\_\_

Coordinate Rule: \_\_\_\_\_

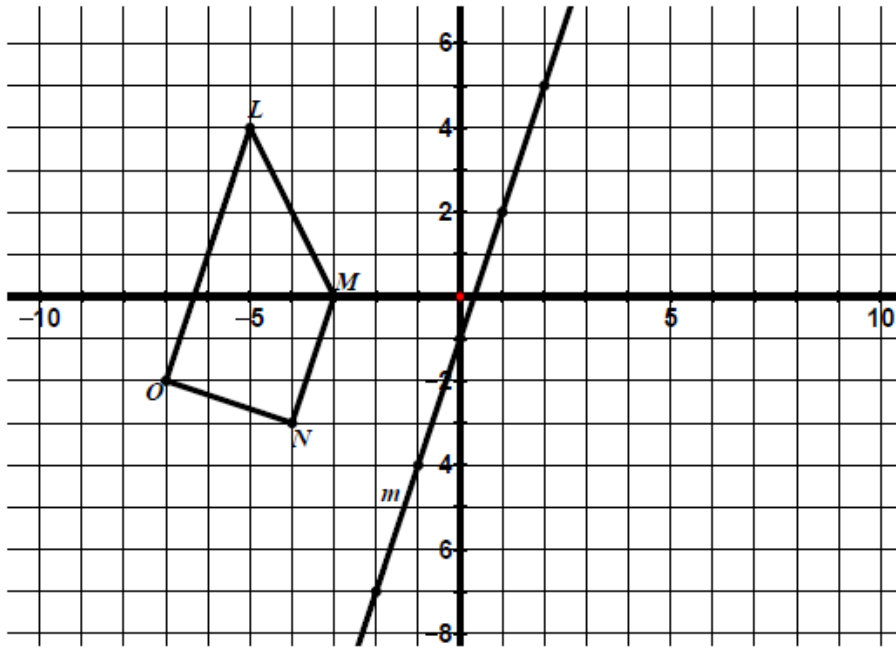


D. Equation \_\_\_\_\_

Coordinate Rule: \_\_\_\_\_



6. Given  $LMNO$ , reflect over the given line of reflection.



A. What is the equation of the line of reflection?

8. The following table lists the properties of translations discovered in the previous lesson. Put a YES or NO in the box if the property is also true for reflections.

Properties of Translations	Also true for Reflections? Yes or No
Segments connecting the corresponding vertices of the image and pre-image are the same length.	
Segments connecting the corresponding vertices of the image and pre-image are parallel to each other.	
Corresponding segments in the image and pre-image are the same length.	
Corresponding angles in the image and pre-image have the same measure.	
Parallel lines in the pre-image remain parallel lines in the image.	
Corresponding segments in the image and pre-image have the same slope.	