## Module 1: Topic 1 Lesson 4 Assignment

1. A REFLECTION is a rigid motion transformation that \_\_\_\_\_\_ a figure across a line of reflection. 2. Anytime a reflection is performed, the pre-image and image will always be\_\_\_\_\_. Use the graph below to answer question 3. 3. Plot the points a. (0, 0), (-7, 5), (-7, 8), (-4, 8) and connect them with straight lines in the order in which they are given. 6 b. Reflect the Quadrilateral from part a across the <u>y-axis</u> Coordinates of Coordinates Quadrilateral after reflection over y-axis -9 -8 -7 -5 -4 -3 -2 2 3 4 \$ ġ (0, 0)2 (-7,5)

> 5. Without graphing, determine the coordinates of the image after a reflection over the x- axis.

c. Write the rule for the reflection.

(x, y)---->

(-7, 8)

(-4, 8)

Pre-	Image
image	
X (7, 2)	Χ'
Y (3,-5)	У'
Z (-6, 0)	Ζ'

Write the rule for the reflection.

(x, y)---->

	↓     <u> </u>	
ne coordinates c e how the trape		
Pre-image	Image	
A (-2,5)	A' (-2, -5)	
B (3,-8)	B' (3, 8)	
C (6, 8)	C' (6, -8)	
D (-9, 5)	D' (-9, -5)	
		1

-3 -4

-5

-6 -7 -8

The pre-image was reflected over the \_\_\_\_\_.

I know this because\_\_\_\_\_

Name:	Date:	Period: A B C D E F		
6. Use a highlighter to draw the line of reflection on this graph.	7. How can yo the reflection o	u determine the ordered pairs of over a <b>y-axis?</b>		
REVIEW				
1. The is the origin	nal figure.			
2. The is the figure after the transformation.				
Determine the coordinates of the image following each given translation without graphing.				
3. Triangle ABC with coordinates A(2, 4)	B(3, 6) C(5, 1	) is <u>translated 4 units to the right</u>		
A' (,) B' (,	) C'(_	)		
<ol> <li>Parallelogram DEFG with coordinates</li> <li><u>7 units down</u></li> </ol>	D(0, 2) E(1, 5)	F(6, 5) and G(5,2) is <b>translated</b>		
D' (,) E' (,) F	., (,	) G' (,)		