Name: _____ # _____

Geometry: Period _____
Ms. Pierre
Date: _____

## Do Now #5

1. If a point $(a, b)$ is reflected over the x-axis, the y-coordinate of the image is____?

A. $a$ B. $-a$

C. $b$ D. $-b$

2. Which of the following most accurately describes a reflection?

A. A mirror image B. A slide along a straight line

C. A turn about a center of rotation D. An enlargement or reduction

3. Which of the following formulas represent a reflection of the line $y = x$?

A. $(-x, y)$ B. $(x, -y)$

C. $(-y, -x)$ D . $(y, x)$

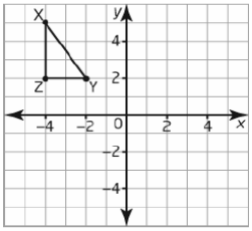
4. Using what you have learned, $\Delta XYZ$ is reflected in the y-axis. What are the coordinates of the transformed image $\Delta X'Y'Z'$?

A. $X'(4, 5), Y'(2, 2), Z'(4, 2)$

B. $X'(4, -5), Y'(2, -2), Z'(4, -2)$

C. $X'(-4, 5), Y'(-2, 2), Z'(-4, 2)$

D. $X'(-4, -5), Y'(-2, -2), Z'(-4, -2)$




5. Using what you have learned, which statement best describes the line of reflection used in the transformation shown in the diagram?

A. A vertical line that crosses at $x = 2$

B. A vertical line that crosses at $x = -2$

C. A horizontal line that crosses at $y = 2$

D. A horizontal line that crosses at $y = -2$