

Name: _____ Block: _____

Reflections Practice**Reflection across the x-axis:**

$$(x, y) \rightarrow (x, -y)$$

Reflection across the y-axis

$$(x, y) \rightarrow (-x, y)$$

Reflection across $y = x$:

$$(x, y) \rightarrow (y, x)$$

Reflection across $y = -x$:

$$(x, y) \rightarrow (-y, -x)$$

Find the coordinates of the vertices of each figure after the given transformation.

1. Reflection across the x-axis.

$$R(-2, 2) \rightarrow$$

$$J(-1, 4) \rightarrow$$

$$G(3, 4) \rightarrow$$

2. Reflect across the y-axis.

$$H(1, -3) \rightarrow$$

$$Z(1, 2) \rightarrow$$

$$W(4, 1) \rightarrow$$

3. Reflect across $y = x$.

$$E(-4, -2) \rightarrow$$

$$N(-1, 0) \rightarrow$$

$$A(1, -3) \rightarrow$$

4. Reflect across $y = -x$.

$$N(-4, 2) \rightarrow$$

$$L(-1, 3) \rightarrow$$

$$R(-1, 2) \rightarrow$$

5. Reflect across the y-axis, then a reflection across the x-axis

$$C(0, 0) \rightarrow$$

$$A(1, 4) \rightarrow$$

$$T(2, 4) \rightarrow$$

$$H(4, 0) \rightarrow$$

6. Reflect across the y-axis.

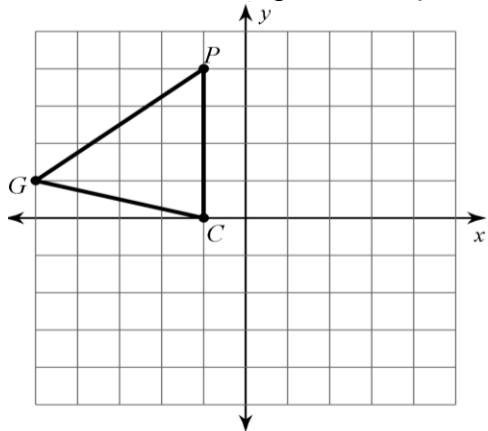
$$J(-3, 1) \rightarrow$$

$$L(-1, 3) \rightarrow$$

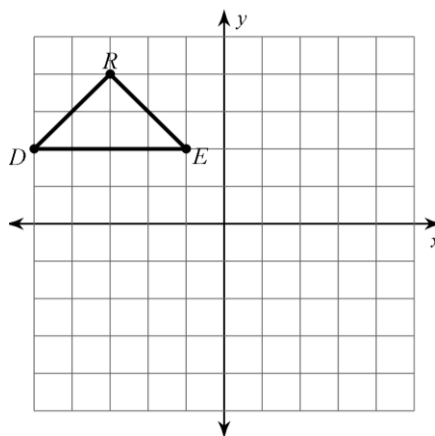
$$B(0, 1) \rightarrow$$

$$M(-2, -4) \rightarrow$$

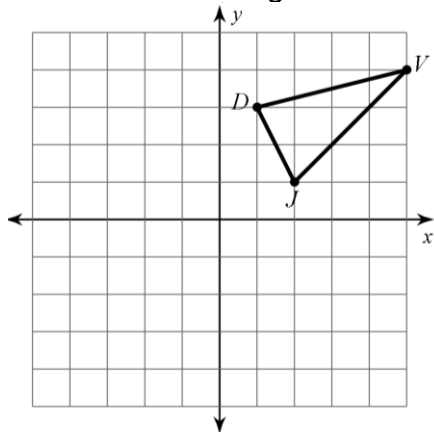
7. Reflect the image across $y = x$.



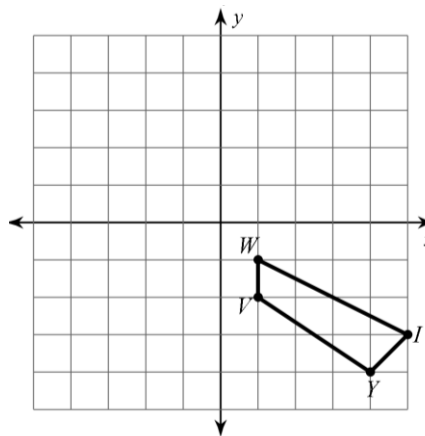
8. Reflect the image across the x-axis



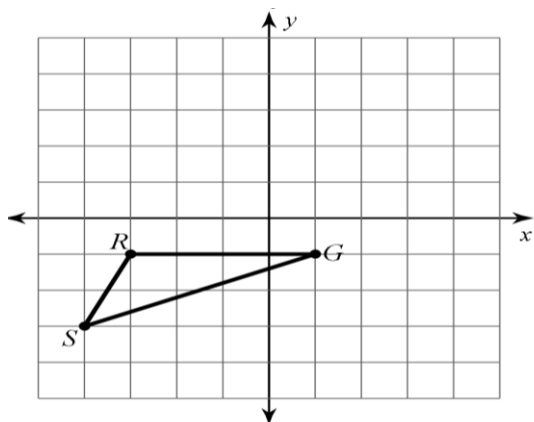
9. Reflect the image across the y-axis.



10. Reflect the image across $y = -1$



11. Reflect the image across the $x = -1$.



12. Reflect the image across $y = 2$

