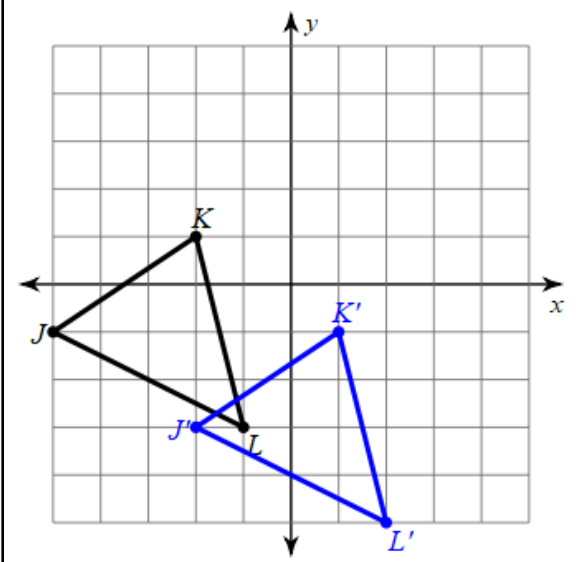


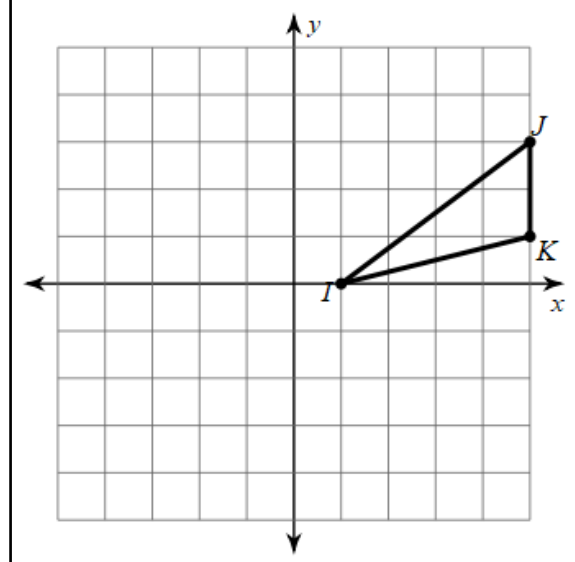
<p>1. What are the three isometric transformations?</p>	<p>2. What does a translation do to a figure?</p>	<p>3. What does a reflection do to a figure?</p>
<p>4. What does a rotation do to a figure?</p>	<p>5. Give the new coordinates of the image given the rule $(x, y) \rightarrow (x - 3, y + 1)$</p> <p>A(2, 3) B(5, 8)</p>	<p>6. Give the new coordinates of the image given the rule $(x, y) \rightarrow (-x, y)$</p> <p>A(2, 3) B(5, 8)</p>
<p>6. Give the new coordinates of the image given the rule $(x, y) \rightarrow (y, -x)$</p> <p>A(2, 3) B(5, 8)</p>	<p>7. Explain the rule in words. $(x, y) \rightarrow (x - 1, y)$</p>	<p>8. Explain the rule in words. $(x, y) \rightarrow (x, -y)$</p>

9.
Explain the rule in words.
 $(x, y) \rightarrow (-x, y)$

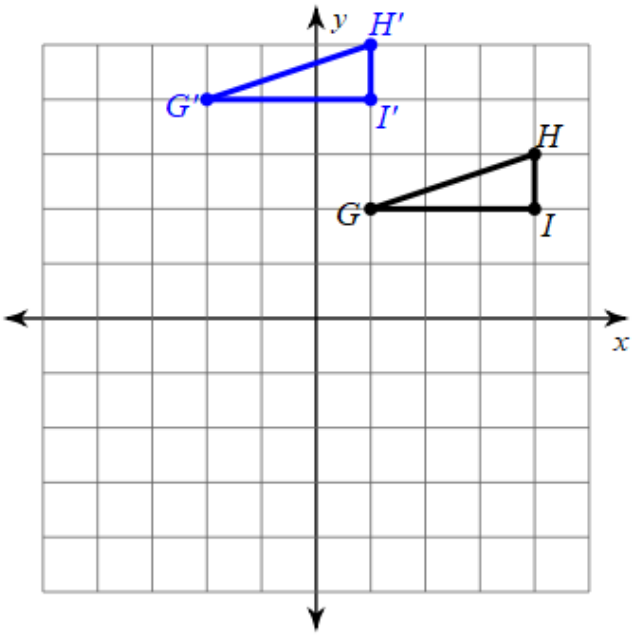
10.
Write the rule.



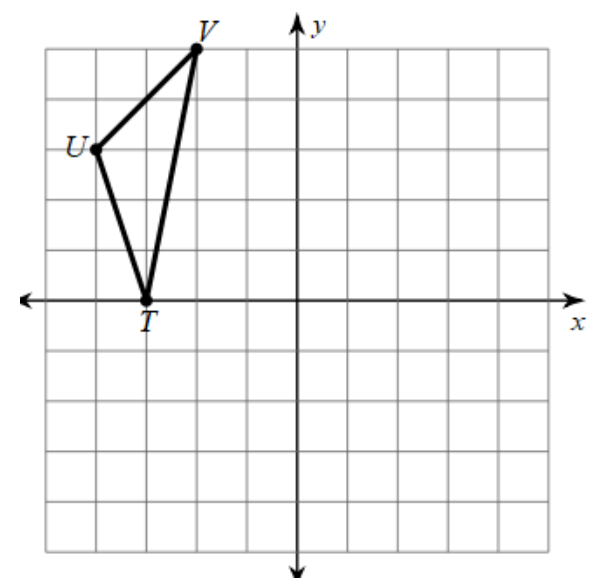
11. Graph using the rule.
 $(x, y) \rightarrow (x - 3, y + 2)$



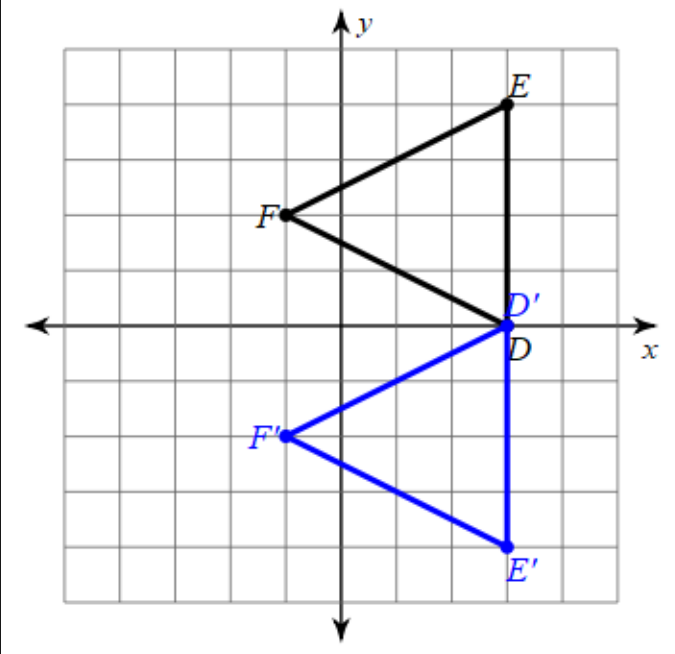
12.
Write the rule.



13.
Graph using the rule.
 $(x, y) \rightarrow (x + 4, y - 3)$



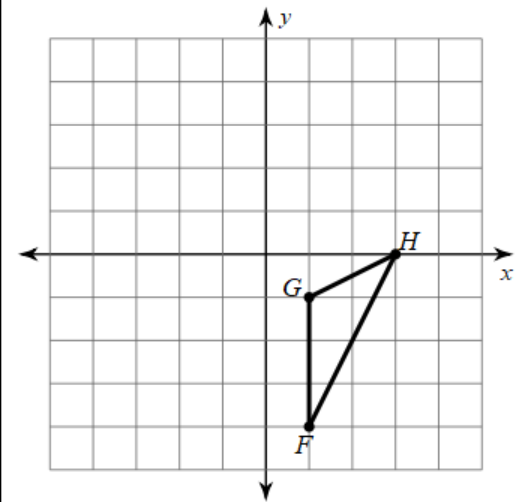
14.
Write the rule.



15.

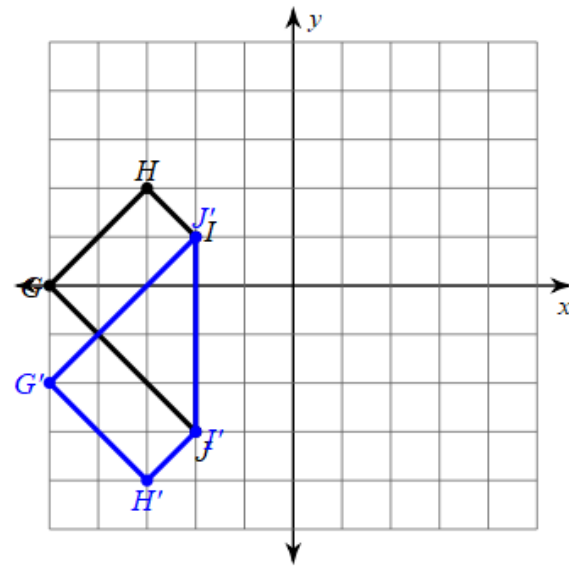
Graph using the rule.

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



16.

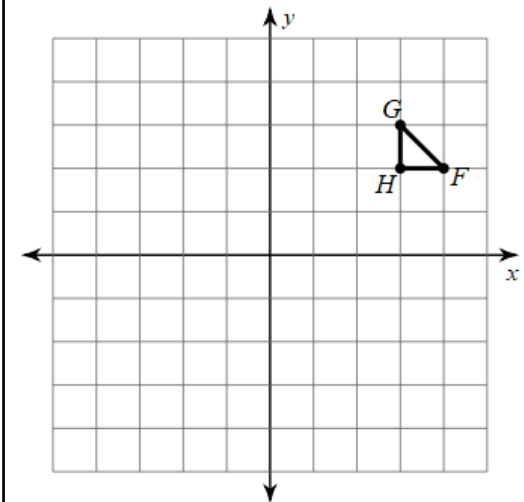
Write the rule.



17.

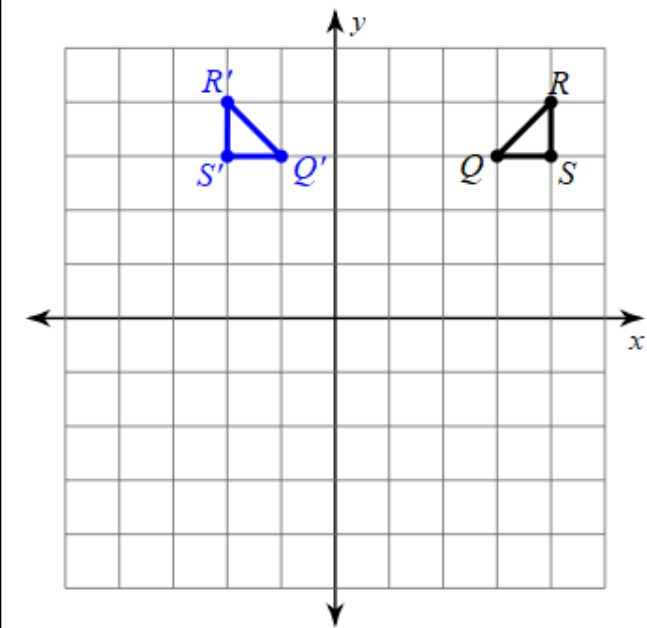
Graph using the rule.

Reflect over $y = 2$



18.

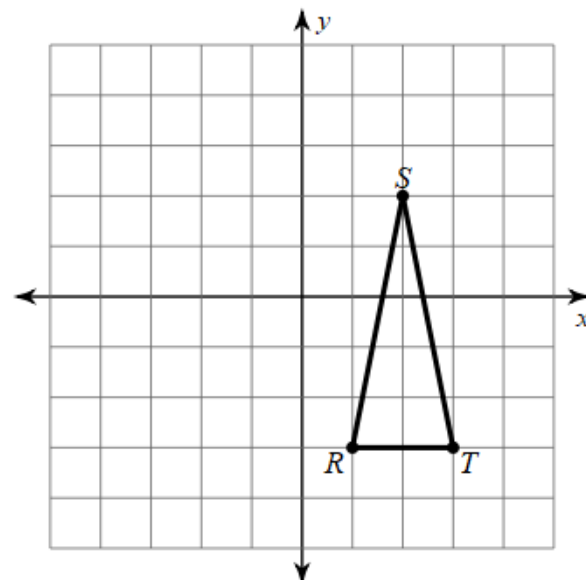
Write the rule.



19.

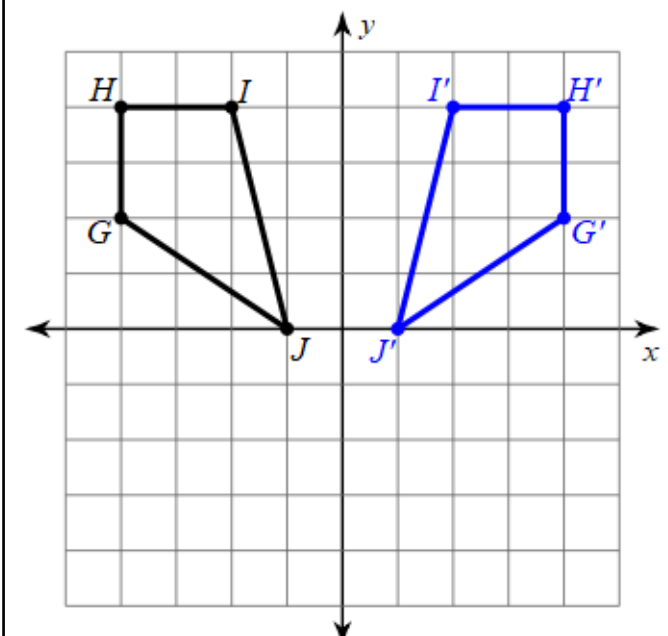
Graph using the rule.

Reflect over $x = 1$



20.

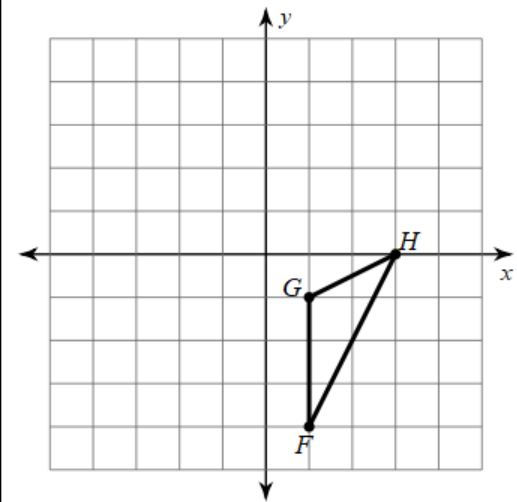
Write the rule.



21.

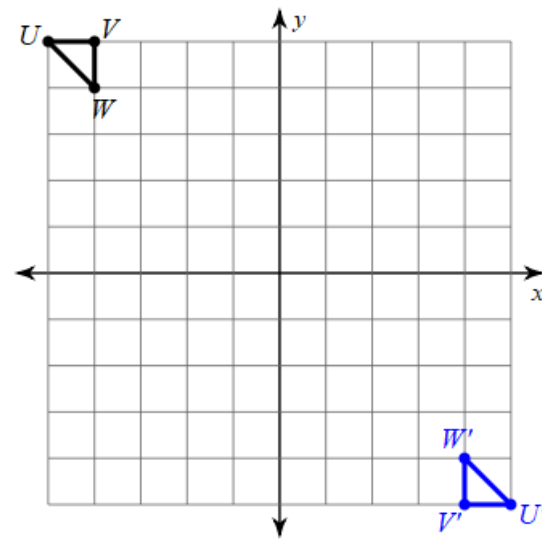
Graph using the rule.

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



22.

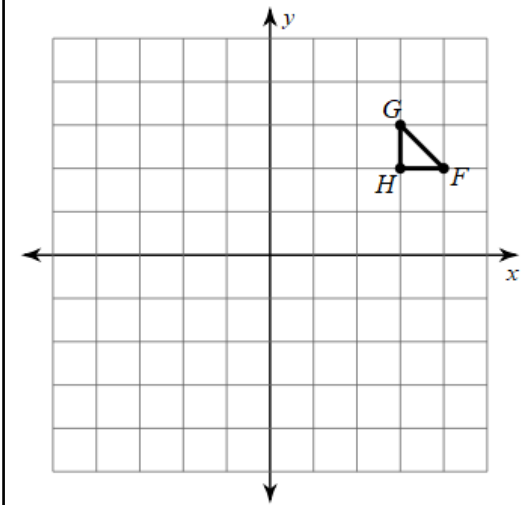
Write the rule.



23.

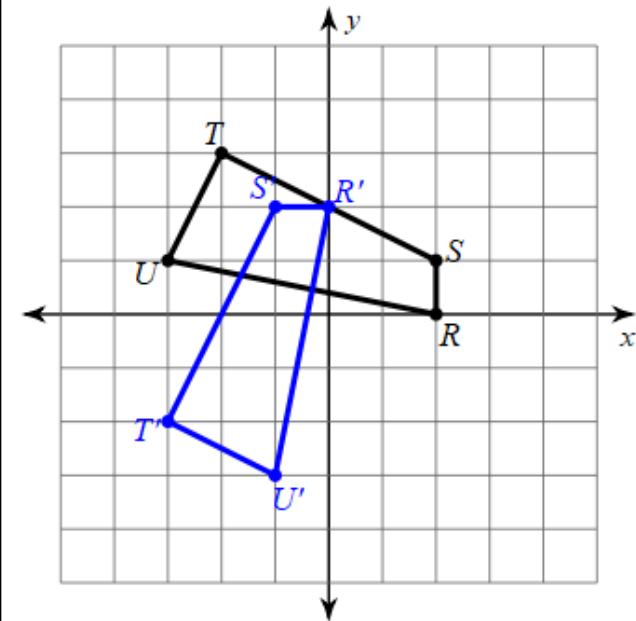
Graph using the rule.

Rotate 180°



24.

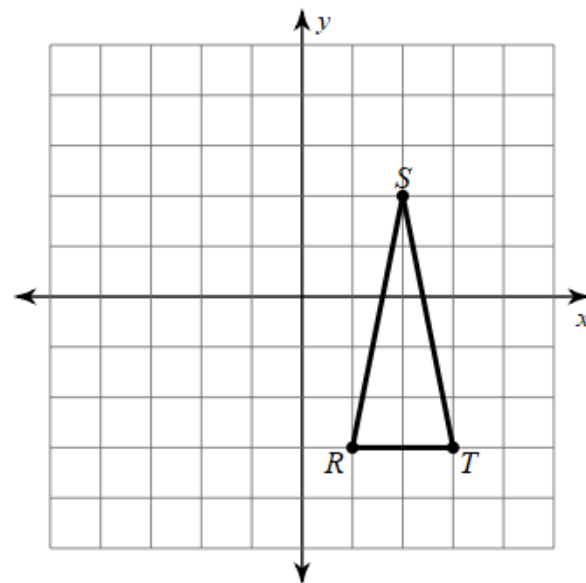
Write the rule.



25.

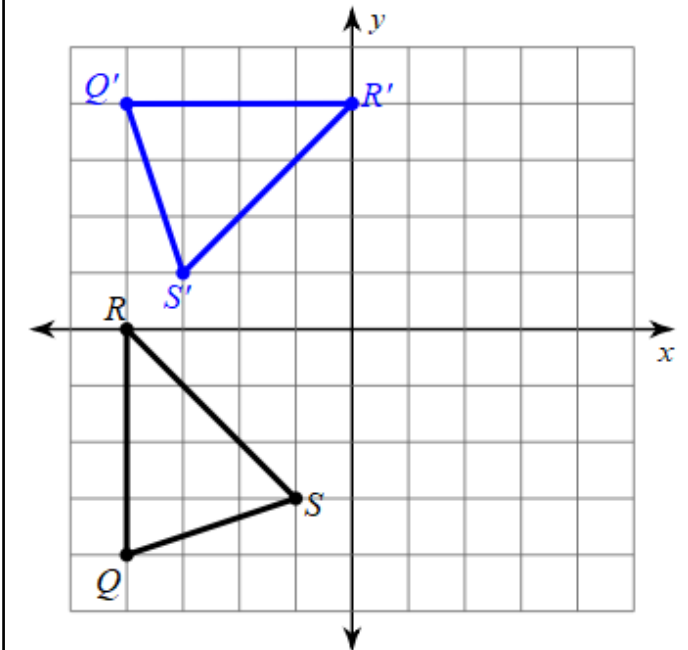
Graph using the rule.

Rotate 90° CW



26.

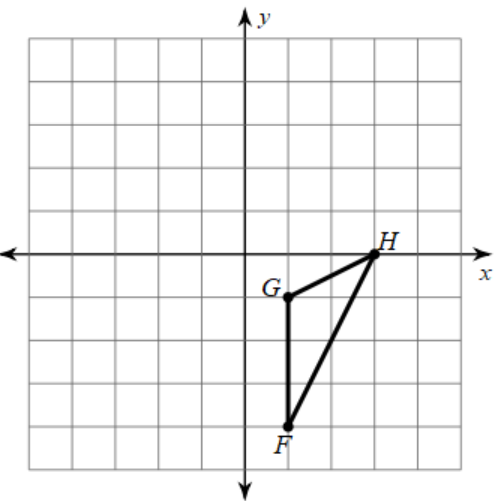
Write the rule.



27.

Graph using the rule.

Rotate 90° CCW



28.

Write the **rule and type of transformation** using the image and pre-image's coordinates.

$$A(2, 3) \rightarrow A'(4, 2)$$

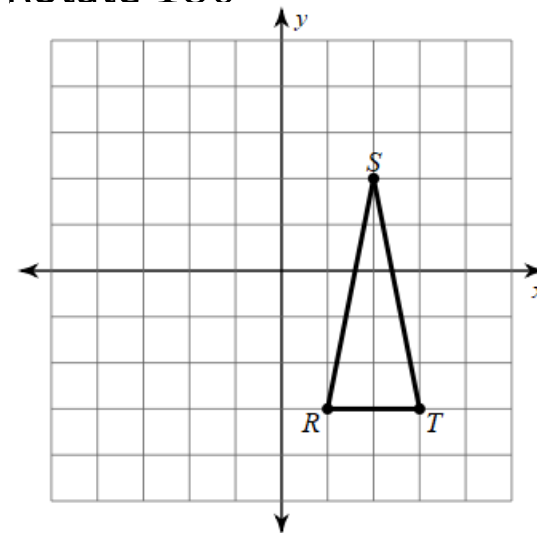
$$B'(-1, 4) \rightarrow B'(1, 3)$$

$$C'(0, 2) \rightarrow C'(2, 1)$$

29.

Graph using the rule.

Rotate 180°



30.

Write the **rule and type of transformation** using the image and pre-image's coordinates.

$$A(2, 3) \rightarrow A'(-2, 3)$$

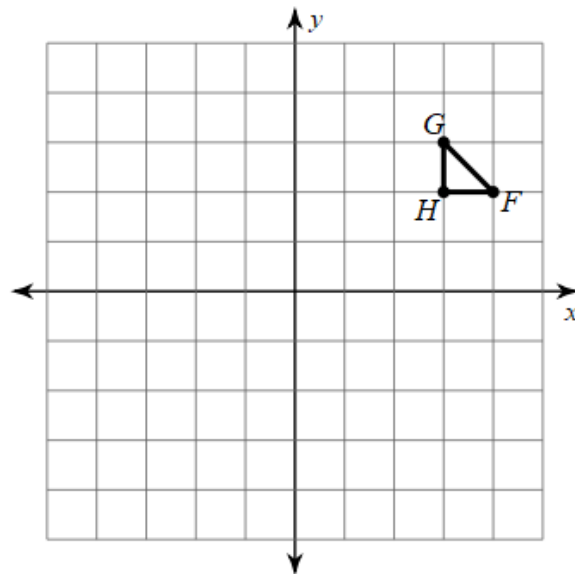
$$B'(-1, 4) \rightarrow B'(1, 4)$$

$$C'(0, 2) \rightarrow C'(0, 2)$$

31.

Graph using the rule.

Rotate 270° CW



32.

Write the **rule and type of transformation** using the image and pre-image's coordinates.

$$A(2, 3) \rightarrow A'(3, -2)$$

$$B'(-1, 4) \rightarrow B'(4, 1)$$

$$C'(0, 2) \rightarrow C'(2, 0)$$