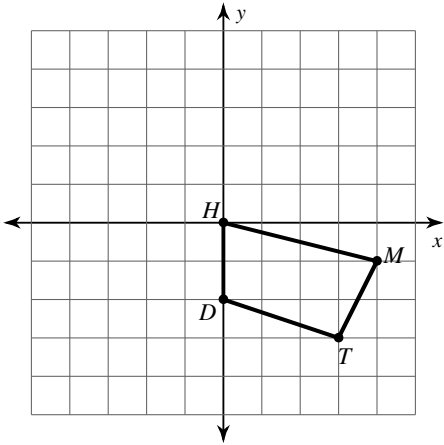


Unit 1a Test Study Guide Transformations

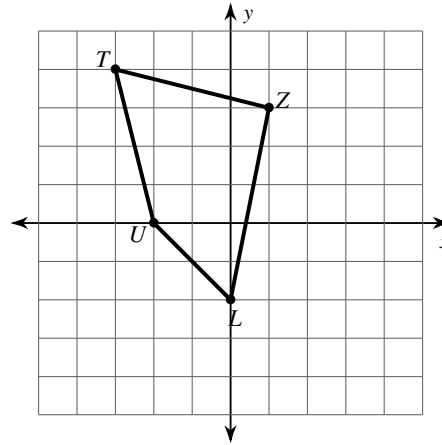
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Graph the image of the figure using the transformation given.

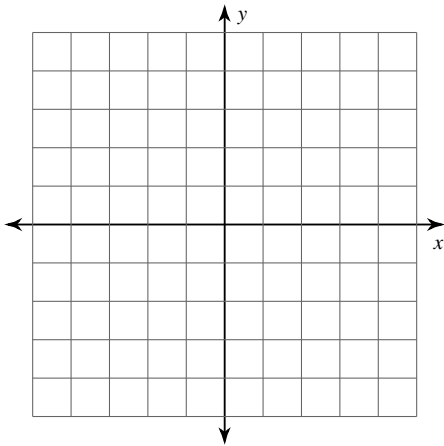
1) translation: 2 units left and 1 unit down



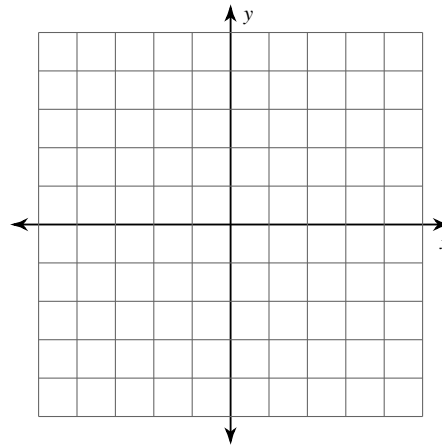
2) translation: 3 units right and 2 units down



3) translation: 5 units right and 2 units up
 $Q(-5, 2)$, $E(-5, 3)$, $K(-1, 2)$, $T(-1, 1)$

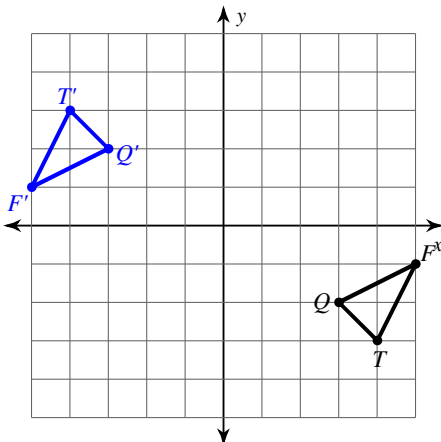


4) translation: 2 units left and 6 units up
 $Q(3, -5)$, $X(2, -2)$, $R(3, -2)$

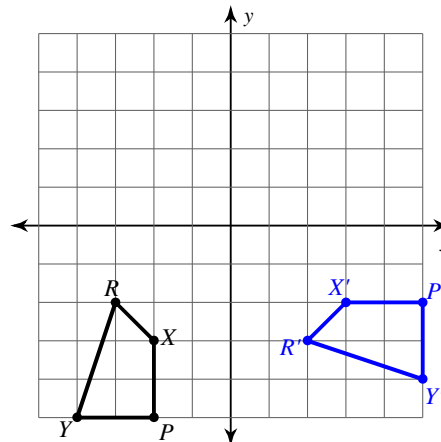


Write a rule to describe each transformation.

5)

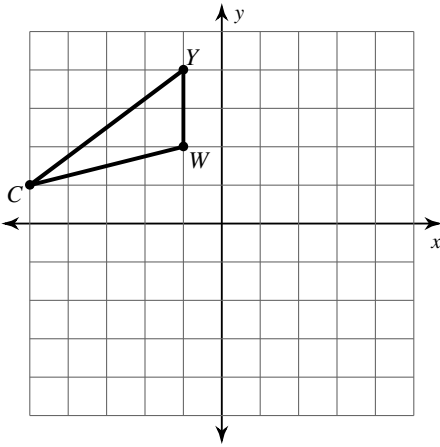


6)

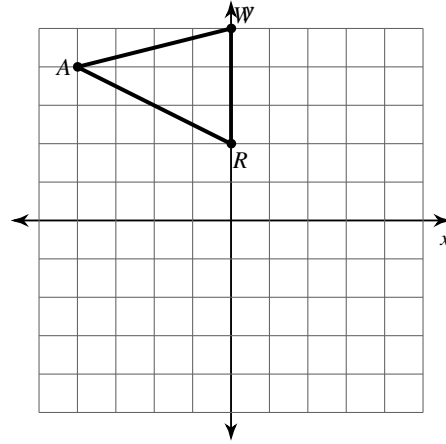


Graph the image of the figure using the transformation given.

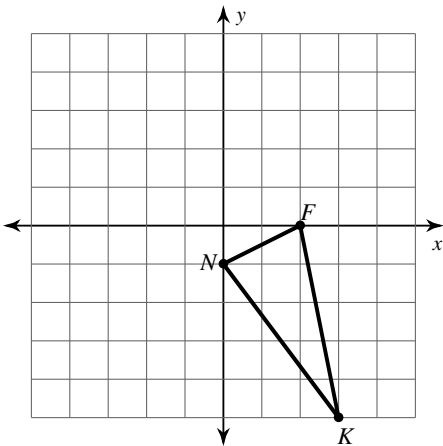
7) reflection across the y-axis



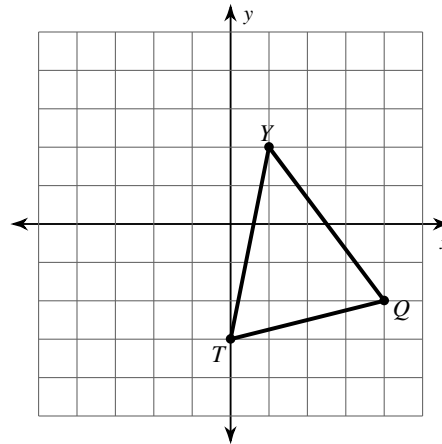
8) reflection across $y = 1$



9) rotation 90° counterclockwise about the origin



10) rotation 180° about the origin



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

11) reflection across the x-axis
 $D(-3, -4)$

12) reflection across the y-axis
 $A(-5, -5)$

Write a rule to describe each transformation.

13) $S(-4, -1), G(-3, 0), C(-2, 0), F(-4, -4)$
 to
 $G'(1, 0), C'(0, 0), F'(2, -4), S'(2, -1)$

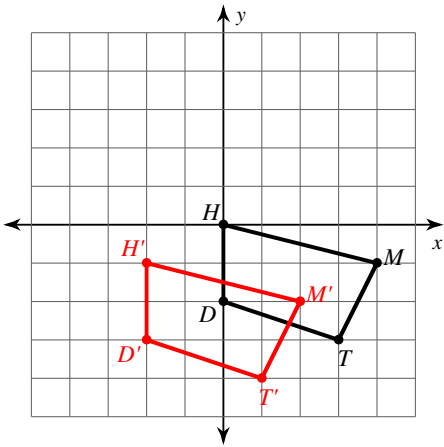
14) $J(-3, -4), M(-5, -2), T(-1, 1), E(0, -2)$
 to
 $M'(1, -2), T'(-3, 1), E'(-4, -2), J'(-1, -4)$

Unit 1a Test Study Guide Transformations

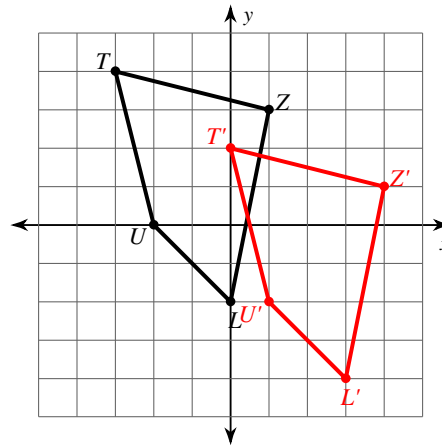
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Graph the image of the figure using the transformation given.

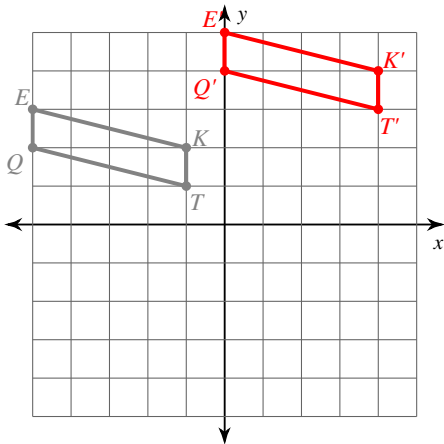
1) translation: 2 units left and 1 unit down



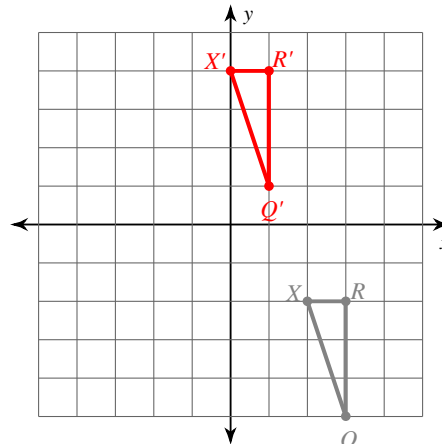
2) translation: 3 units right and 2 units down



3) translation: 5 units right and 2 units up
 $Q(-5, 2), E(-5, 3), K(-1, 2), T(-1, 1)$

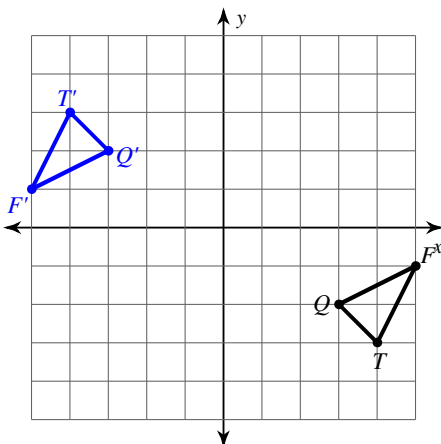


4) translation: 2 units left and 6 units up
 $Q(3, -5), X(2, -2), R(3, -2)$



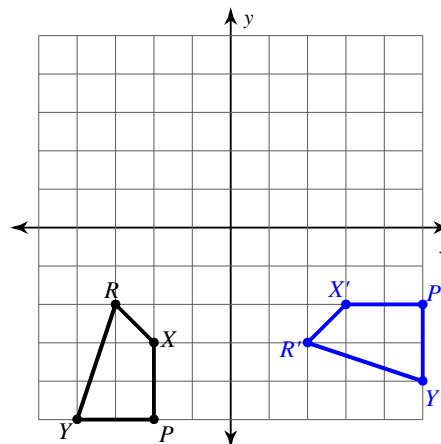
Write a rule to describe each transformation.

5)



rotation 180° about the origin

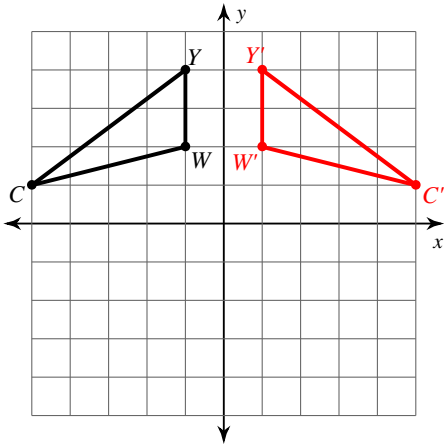
6)



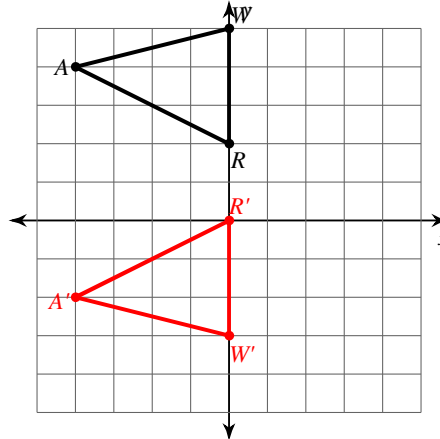
rotation 90° counterclockwise about origin

Graph the image of the figure using the transformation given.

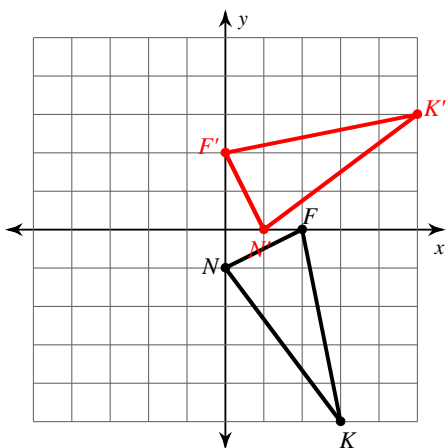
7) reflection across the y-axis



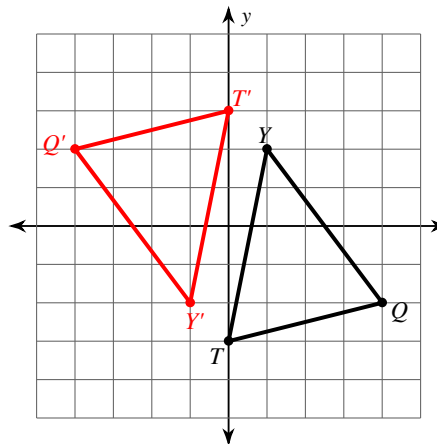
8) reflection across $y = 1$



9) rotation 90° counterclockwise about the origin



10) rotation 180° about the origin



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

11) reflection across the x-axis

$$D(-3, -4)$$

$$D'(-3, 4)$$

12) reflection across the y-axis

$$A(-5, -5)$$

$$A'(5, -5)$$

Write a rule to describe each transformation.

13) $S(-4, -1)$, $G(-3, 0)$, $C(-2, 0)$, $F(-4, -4)$

to

$$G'(1, 0), C'(0, 0), F'(2, -4), S'(2, -1)$$

$$\text{reflection across } x = -1$$

14) $J(-3, -4)$, $M(-5, -2)$, $T(-1, 1)$, $E(0, -2)$

to

$$M'(1, -2), T'(-3, 1), E'(-4, -2), J'(-1, -4)$$

$$\text{reflection across } x = -2$$