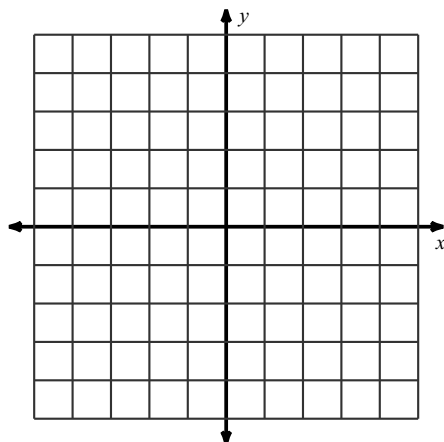


6.1 - PRACTICE - REFLECTIONS

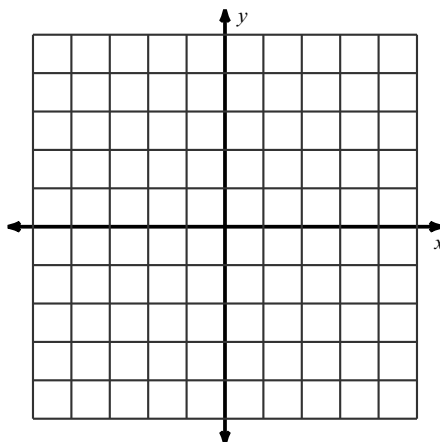
Date _____

Graph the image of the figure using the transformation given.

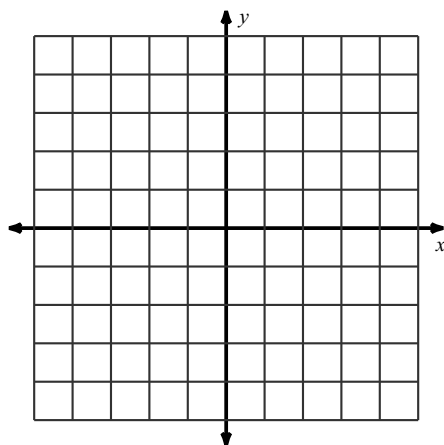
- 1) reflection across $y = 1$
 $T(3, -3)$, $U(3, 1)$, $V(5, 0)$



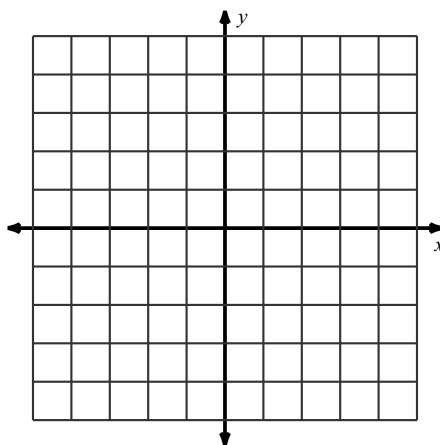
- 2) reflection across $y = x$
 $F(1, -5)$, $G(2, 0)$, $H(5, -4)$



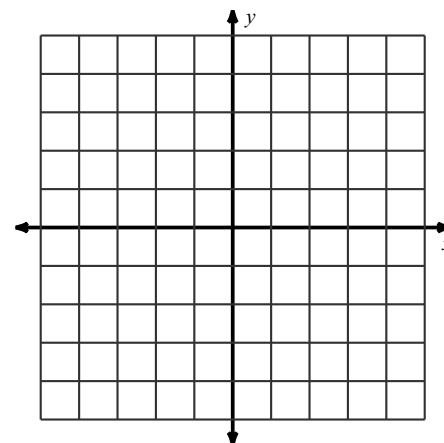
- 3) reflection across $y = -1$
 $F(-3, -4)$, $G(-1, -1)$, $H(2, -4)$



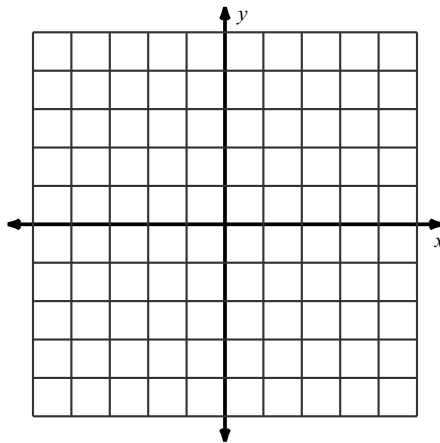
- 4) reflection across $y = -x$
 $H(-3, -4)$, $I(-3, 0)$, $J(1, -3)$



- 5) reflection across $x = -1$
 $U(-1, -3)$, $V(0, -1)$, $W(3, -3)$

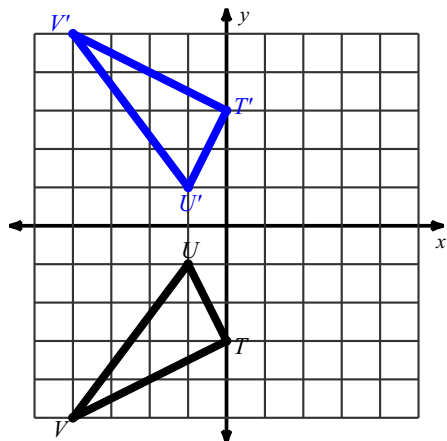


- 6) reflection across the x-axis
 $D(-5, -4)$, $E(-5, -1)$, $F(-2, -1)$

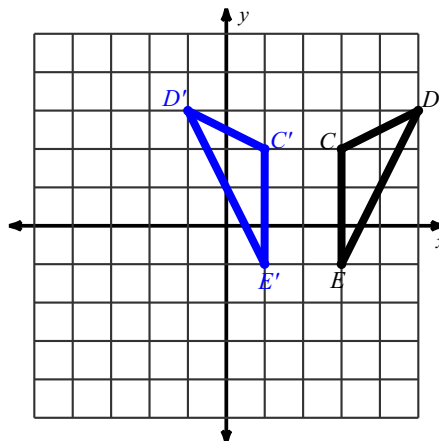


Write a rule to describe each transformation.

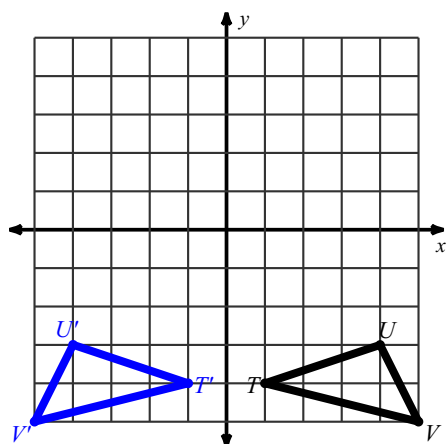
7)



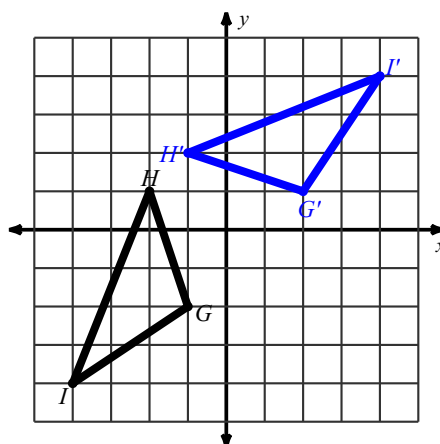
8)



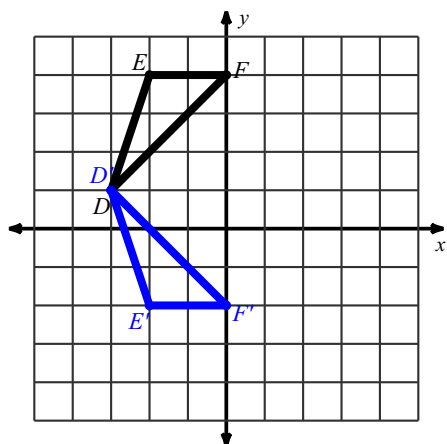
9)



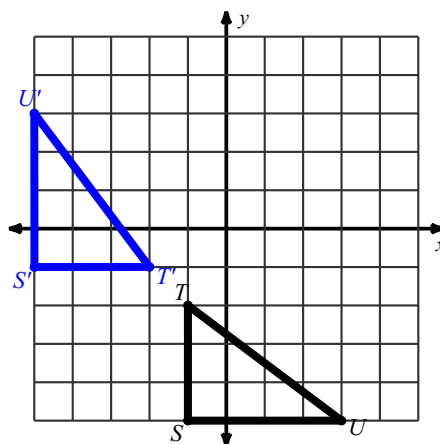
10)



11)



12)



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

13) reflection across the y-axis
 $B(4, 5)$

14) reflection across the x-axis
 $K(-2, -1)$

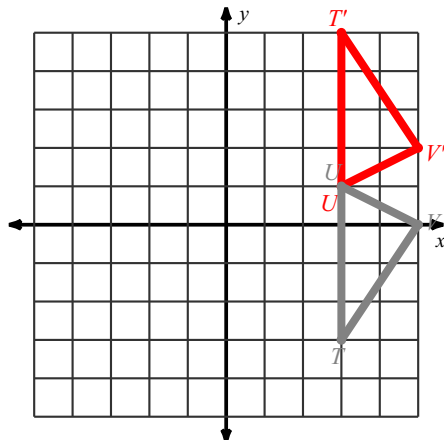
15) reflection across $y = x$
 $I(4, -1)$

16) reflection across $y = -x$
 $E(-5, -1)$

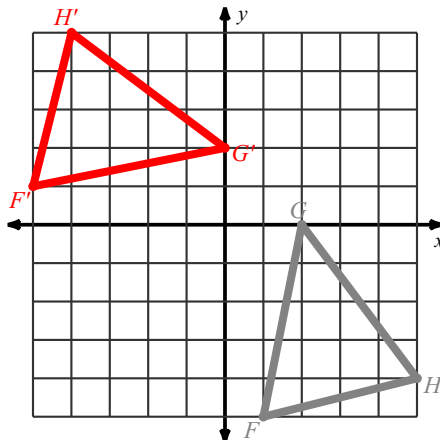
6.1 - PRACTICE - REFLECTIONS

Graph the image of the figure using the transformation given.

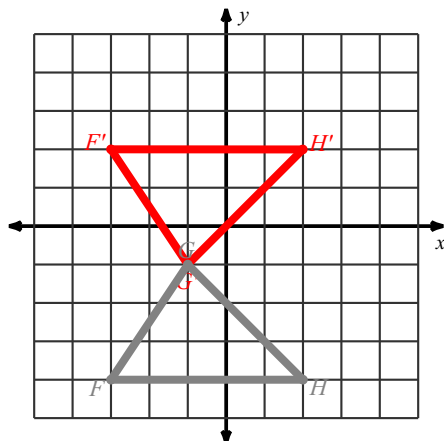
- 1) reflection across $y = 1$
 $T(3, -3), U(3, 1), V(5, 0)$



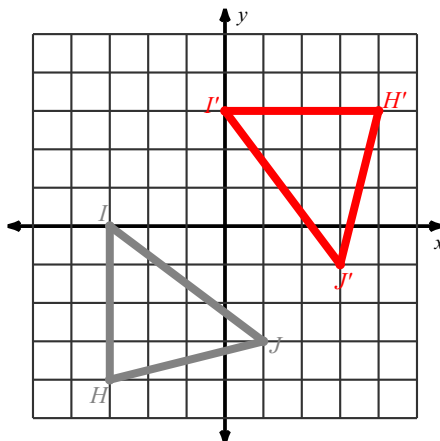
- 2) reflection across $y = x$
 $F(1, -5), G(2, 0), H(5, -4)$



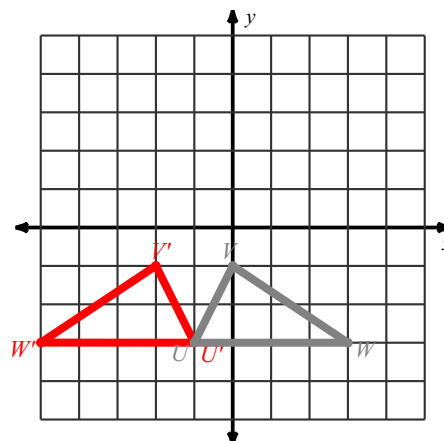
- 3) reflection across $y = -1$
 $F(-3, -4), G(-1, -1), H(2, -4)$



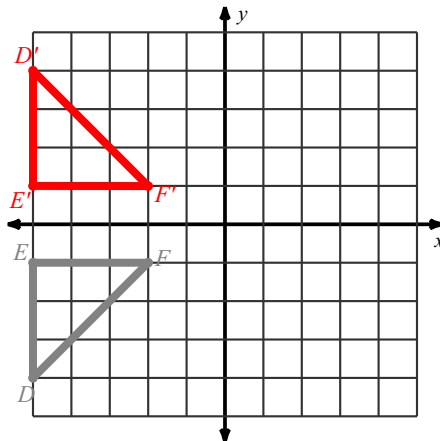
- 4) reflection across $y = -x$
 $H(-3, -4), I(-3, 0), J(1, -3)$



- 5) reflection across $x = -1$
 $U(-1, -3), V(0, -1), W(3, -3)$

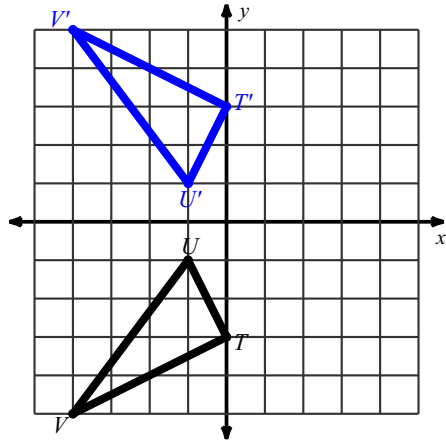


- 6) reflection across the x-axis
 $D(-5, -4), E(-5, -1), F(-2, -1)$



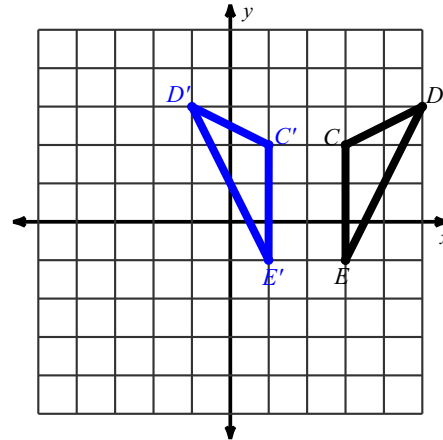
Write a rule to describe each transformation.

7)



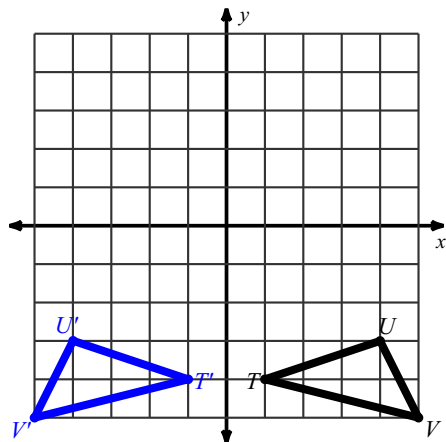
reflection across the x-axis

8)



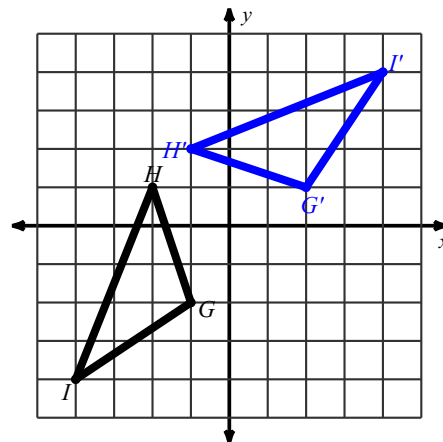
reflection across $x = 2$

9)



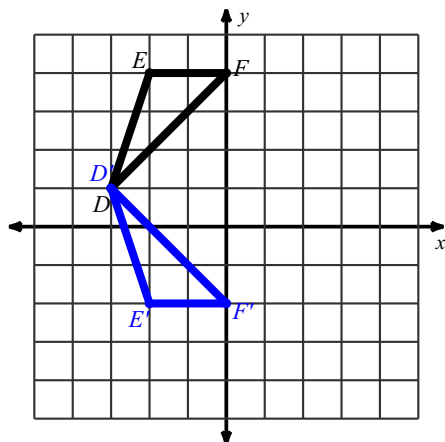
reflection across the y-axis

10)



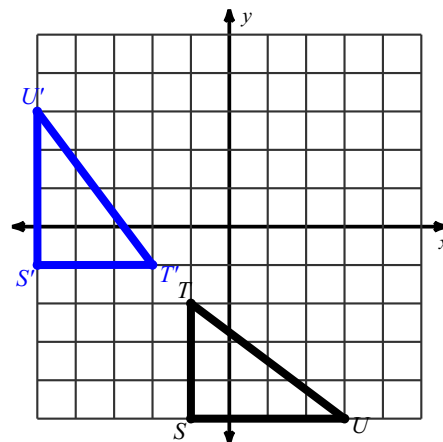
reflection across $y = -x$

11)



reflection across $y = 1$

12)



reflection across $y = x$

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

13) reflection across the y-axis

$B(4, 5)$

$B'(-4, 5)$

14) reflection across the x-axis

$K(-2, -1)$

$K'(-2, 1)$

15) reflection across $y = x$

$I(4, -1)$

$I'(-1, 4)$

16) reflection across $y = -x$

$E(-5, -1)$

$E'(1, 5)$