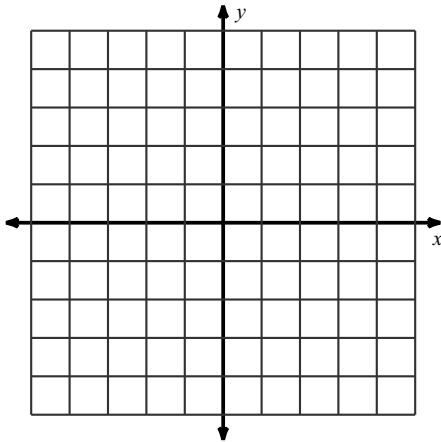


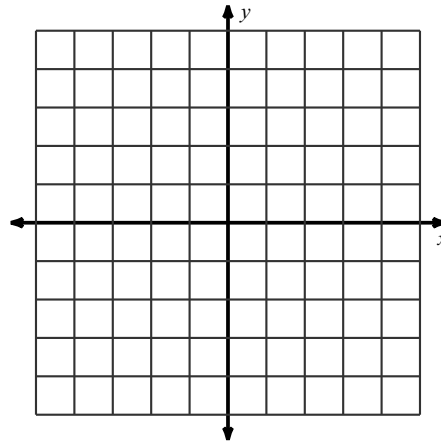
6.1 - PRACTICE - Translations

Graph the image of the figure using the transformation given.

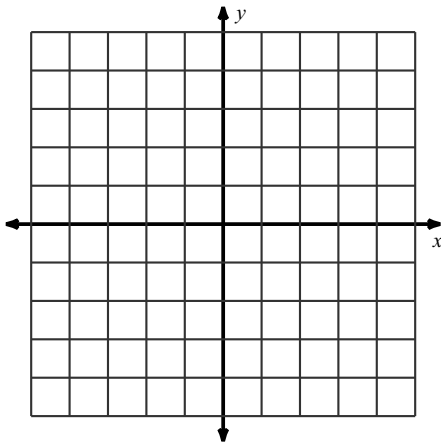
- 1) translation: $(x, y) \rightarrow (x - 2, y + 4)$
 $Q(1, -4), R(4, -1), S(3, -4)$



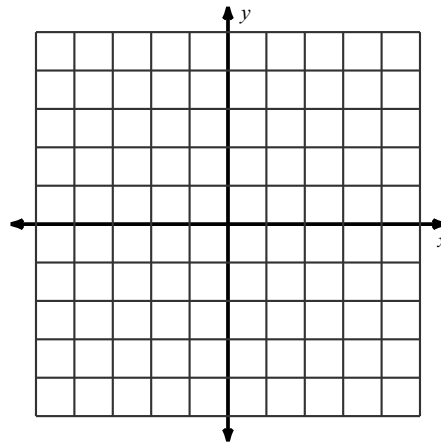
- 2) translation: $(x, y) \rightarrow (x + 2, y - 3)$
 $U(0, 0), T(2, 5), S(3, 2)$



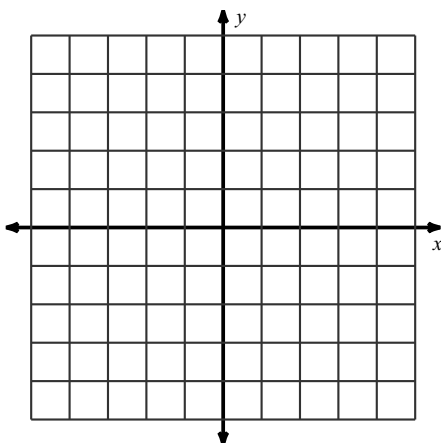
- 3) translation: $(x, y) \rightarrow (x - 3, y + 1)$
 $D(0, 3), E(4, 4), F(1, 0)$



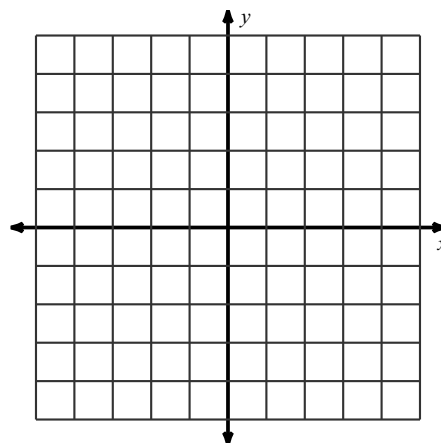
- 4) translation: $(x, y) \rightarrow (x - 4, y + 4)$
 $T(1, -4), U(2, 1), V(4, -1)$



- 5) translation: $(x, y) \rightarrow (x + 6, y + 3)$
 $H(-5, 1), G(-2, 2), F(-2, -3)$

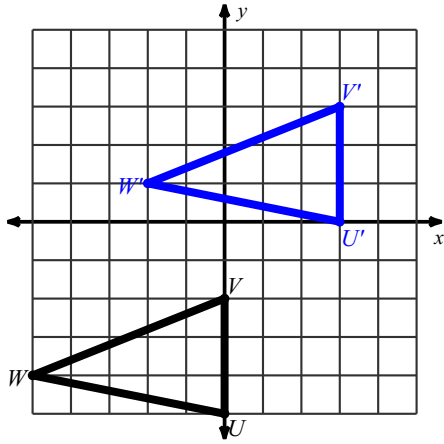


- 6) translation: $(x, y) \rightarrow (x - 3, y - 6)$
 $R(0, 2), S(4, 4), T(5, 2)$

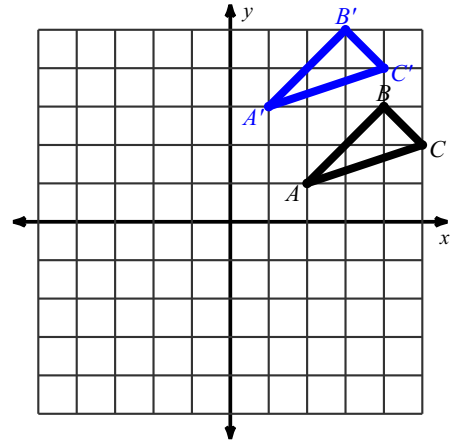


Write a rule to describe each transformation.

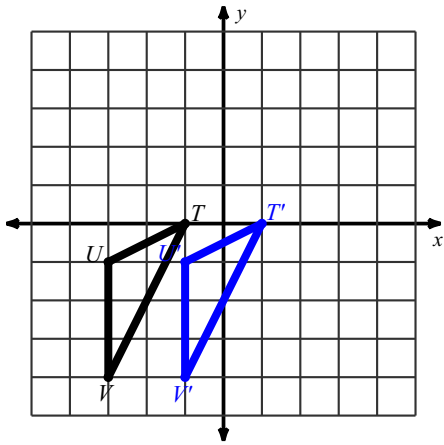
7)



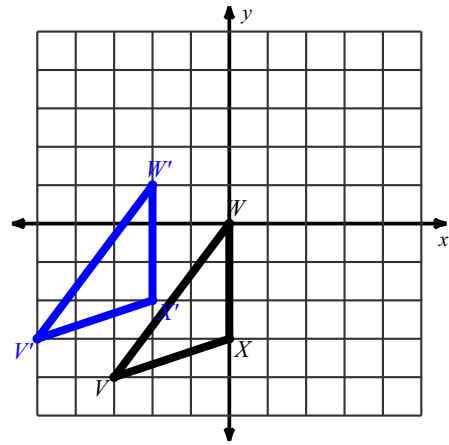
8)



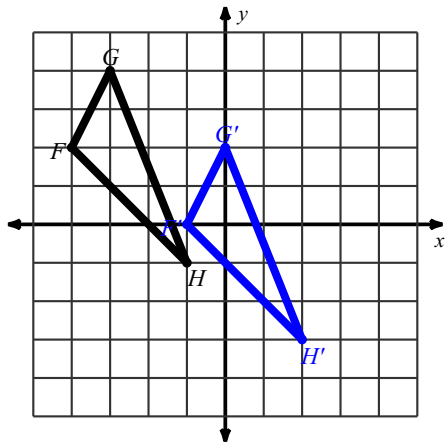
9)



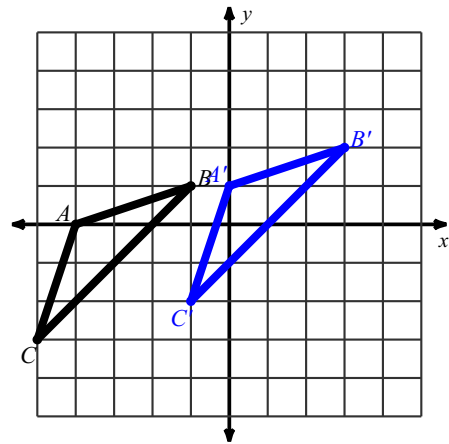
10)



11)



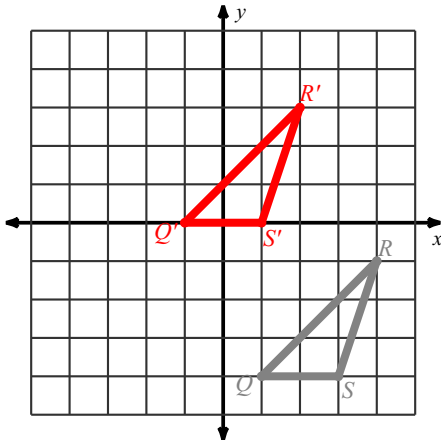
12)



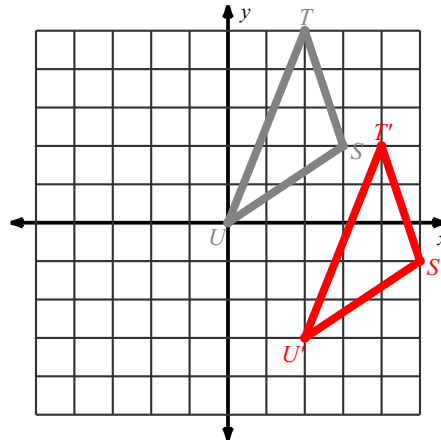
6.1 - PRACTICE - Translations

Graph the image of the figure using the transformation given.

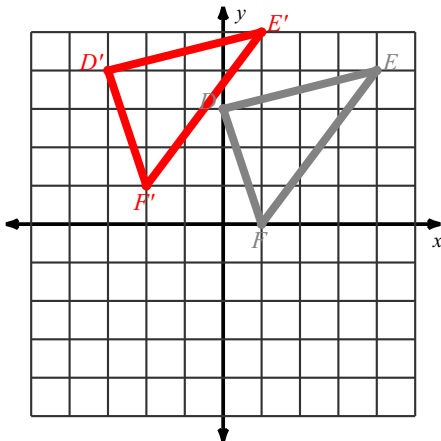
- 1) translation: $(x, y) \rightarrow (x - 2, y + 4)$
 $Q(1, -4), R(4, -1), S(3, -4)$



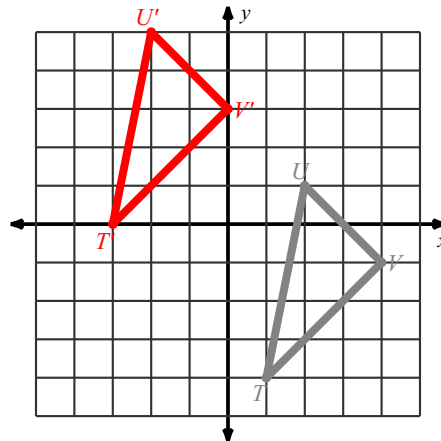
- 2) translation: $(x, y) \rightarrow (x + 2, y - 3)$
 $U(0, 0), T(2, 5), S(3, 2)$



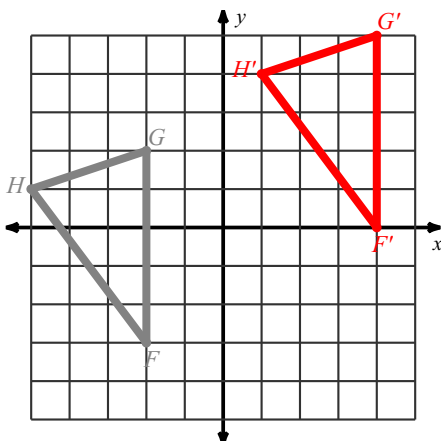
- 3) translation: $(x, y) \rightarrow (x - 3, y + 1)$
 $D(0, 3), E(4, 4), F(1, 0)$



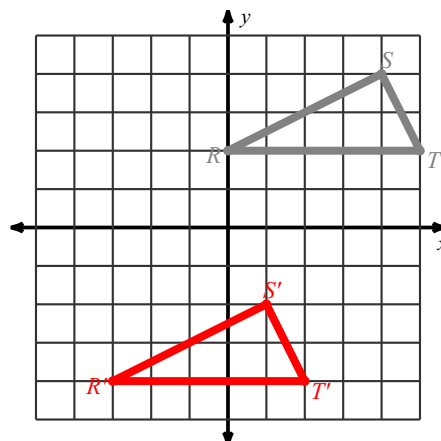
- 4) translation: $(x, y) \rightarrow (x - 4, y + 4)$
 $T(1, -4), U(2, 1), V(4, -1)$



- 5) translation: $(x, y) \rightarrow (x + 6, y + 3)$
 $H(-5, 1), G(-2, 2), F(-2, -3)$

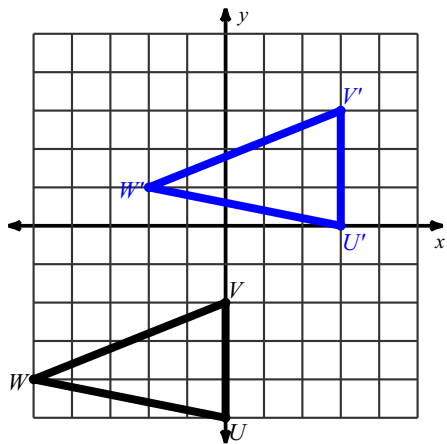


- 6) translation: $(x, y) \rightarrow (x - 3, y - 6)$
 $R(0, 2), S(4, 4), T(5, 2)$



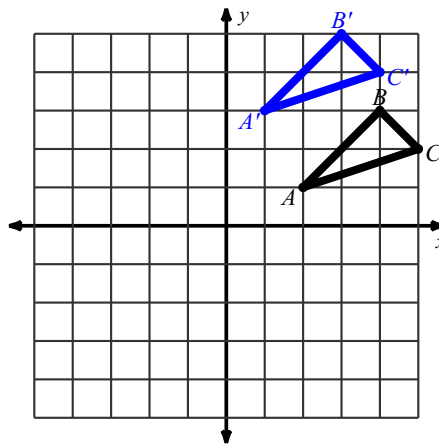
Write a rule to describe each transformation.

7)



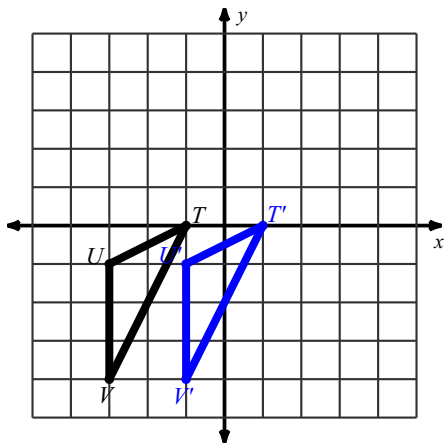
translation: $(x, y) \rightarrow (x + 3, y + 5)$

8)



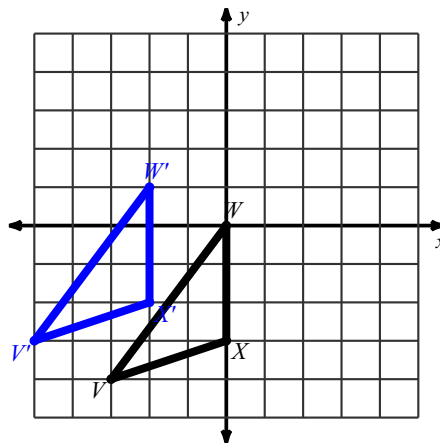
translation: $(x, y) \rightarrow (x - 1, y + 2)$

9)



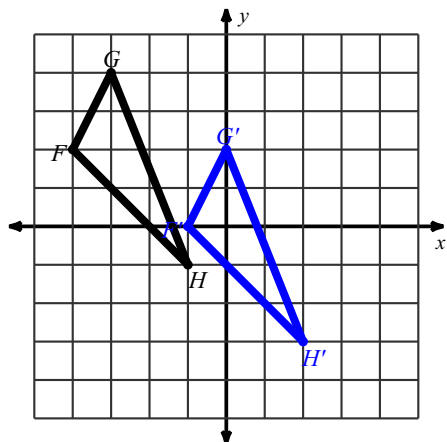
translation: $(x, y) \rightarrow (x + 2, y)$

10)



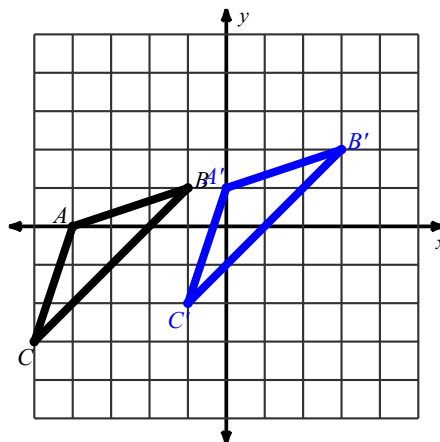
translation: $(x, y) \rightarrow (x - 2, y + 1)$

11)



translation: $(x, y) \rightarrow (x + 3, y - 2)$

12)



translation: $(x, y) \rightarrow (x + 4, y + 1)$