

Unit 10.1 worksheet Translations

Write a rule to describe each transformation.

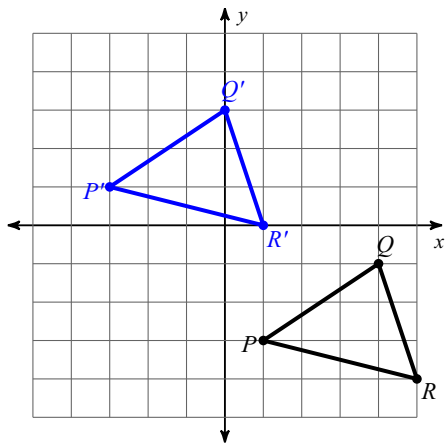
1) $X(-5, -2)$ to $X'(0, -5)$

2) $F(-4, -1)$ to $F'(-4, 3)$

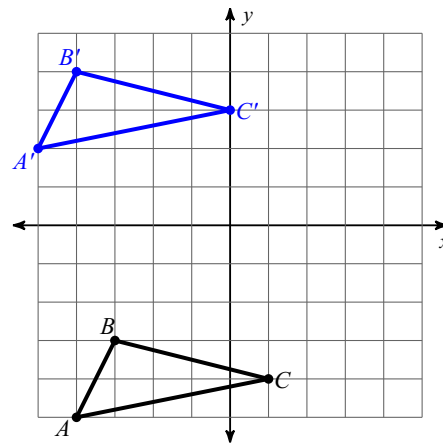
3) $I(-4, 4)$ to $I'(3, -2)$

4) $F(4, -4)$ to $F'(2, 2)$

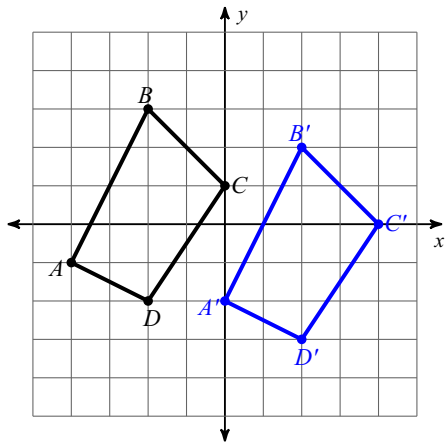
5)



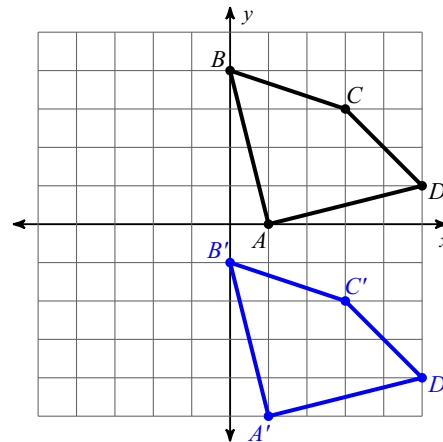
6)



7)

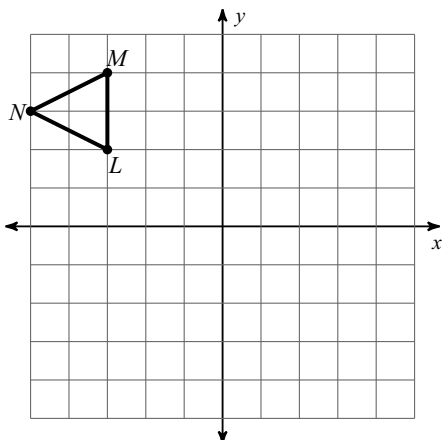


8)

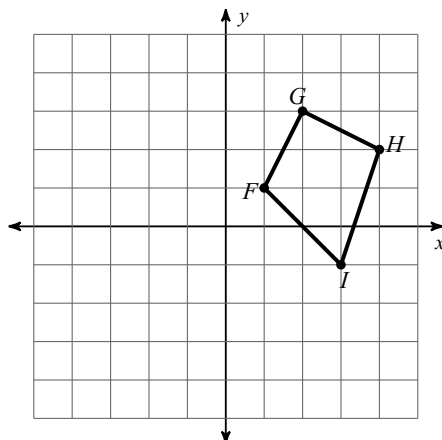


Graph the image of the figure using the transformation given.

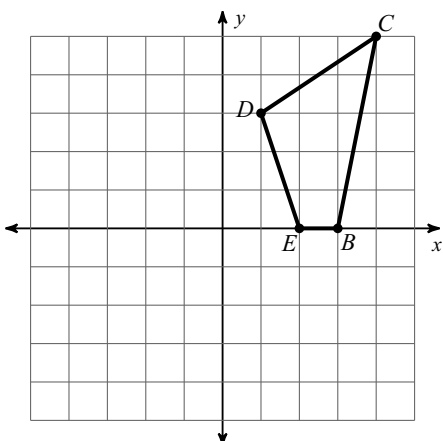
9) translation: $(x, y) \rightarrow (x + 8, y - 5)$



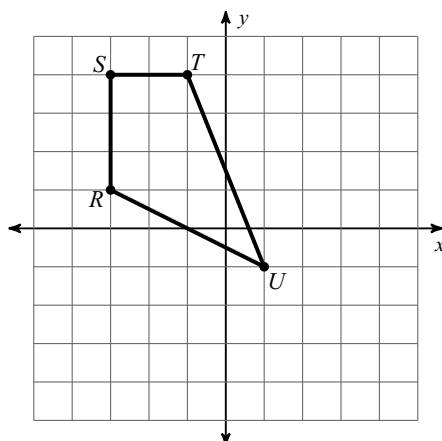
10) translation: $(x, y) \rightarrow (x - 5, y - 3)$



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

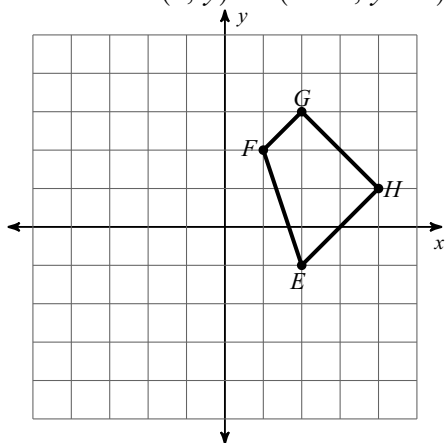


12) translation: $(x, y) \rightarrow (x + 2, y + 1)$



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

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



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

