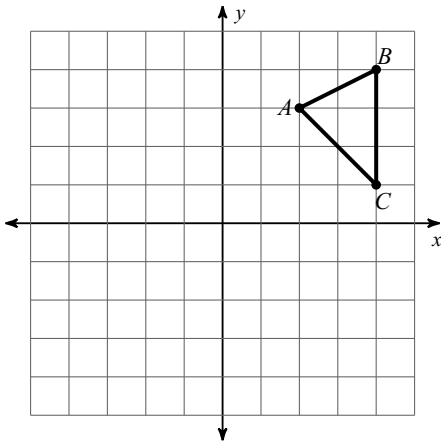
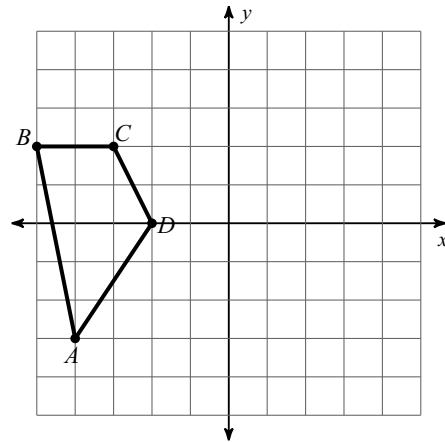


Graph the image of the figure using the transformation given. Then write a verbal and symbolic representation of the transformation.

1) translation: 6 units left and 1 unit up

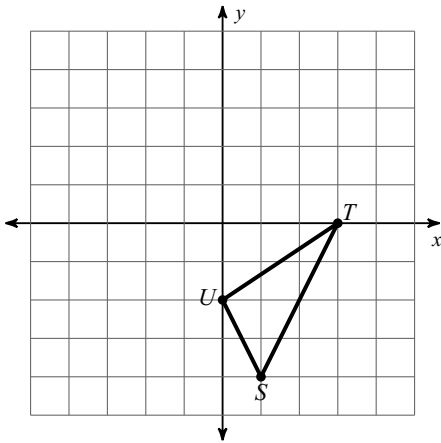


2) translation: 4 units right and 1 unit down

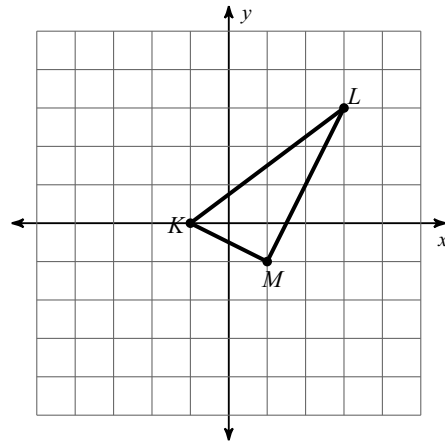


Graph the image of the figure using the transformation given. Write a verbal description of the transformation.

3) translation: $(x, y) \rightarrow (x - 2, y + 5)$

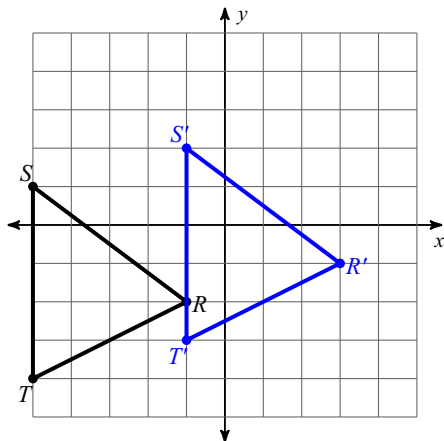


4) translation: $(x, y) \rightarrow (x - 3, y - 1)$

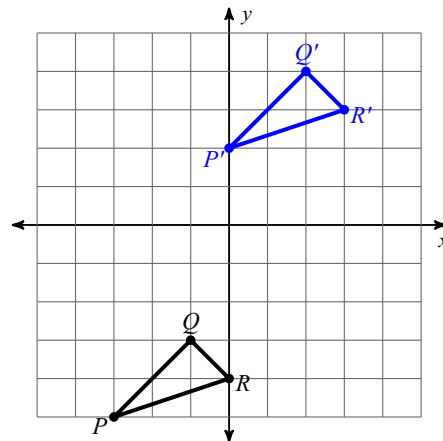


Write a symbolic and verbal description of the given translation.

5)



6)



Find the coordinates of the vertices based on the verbal description.

7) translation: 2 units left and 1 unit up
 $I(2, 2), J(5, 3), K(2, -1)$

8) translation: 1 unit right and 5 units down
 $H(-3, 1), I(0, 5), J(1, 2)$

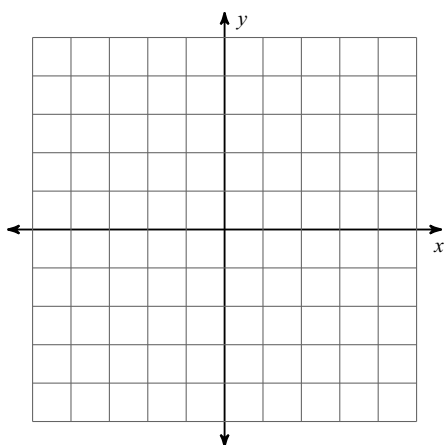
Use the coordinate pairs to write a verbal and symbolic representation of the transformation.

9) $A(-5, -3), B(-5, 1), C(-4, 1), D(-3, -4)$
 to
 $A'(3, 1), B'(3, 5), C'(4, 5), D'(5, 0)$

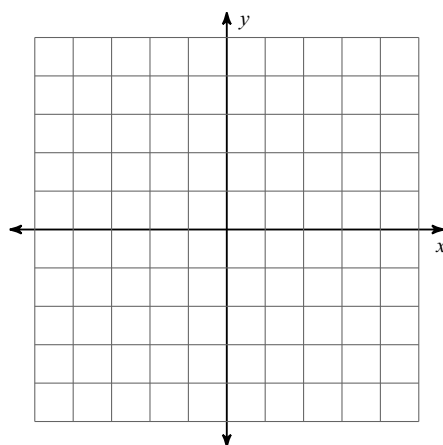
10) $D(-1, -2), E(-3, 2), F(2, 4), G(3, -1)$
 to
 $D'(-1, -3), E'(-3, 1), F'(2, 3), G'(3, -2)$

Graph the image of the figure using the transformation given. Then write a verbal and symbolic representation of the transformation.

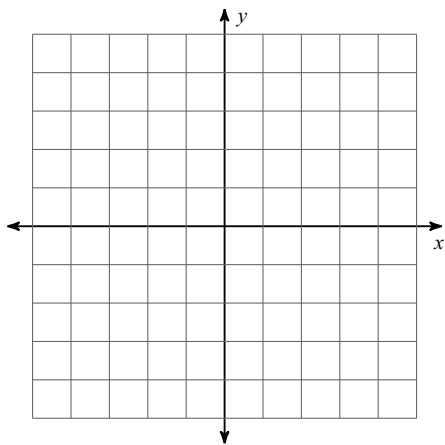
11) translation: 3 units right and 1 unit down
 $H(-5, -3), G(-4, 0), F(-1, 0)$



12) translation: 4 units right
 $J(-5, -5), I(-2, -1), H(0, -5)$



13) translation: 2 units left
 $J(0, -3), K(4, 0), L(5, -1)$



14) translation: 3 units up
 $P(-3, -1), Q(1, 0), R(-2, -4)$

