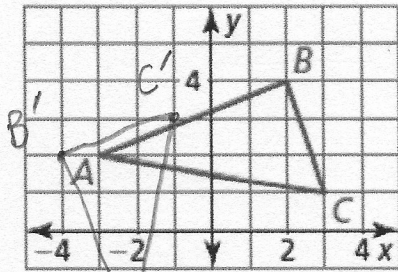


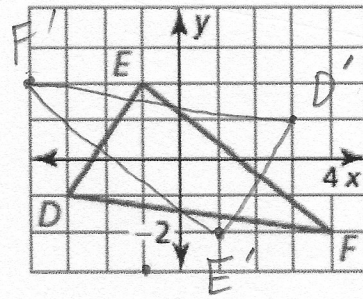
In Exercises 4 – 6, find the coordinates of the image if the figure is rotated by the given angle. Graph the image.

4.  $90^\circ$  CCW



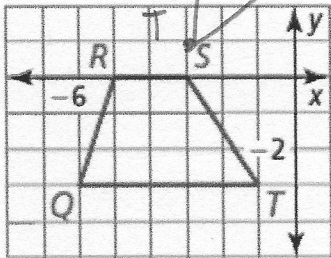
$B(2, 4)$   $B'(-4, 2)$   
 $C(3, 1)$   $C'(-1, 3)$   
 $A(-3, 2)$   $A'(-2, -3)$

5.  $180^\circ$



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

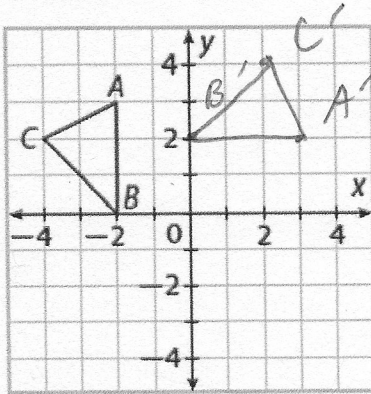
6.  $270^\circ$  CCW



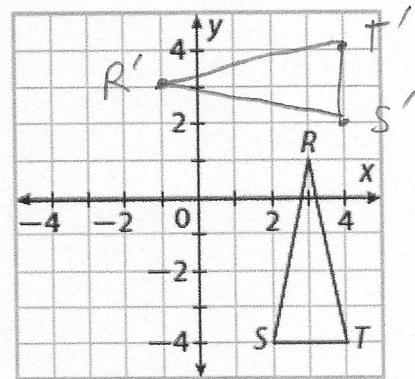
$Q(-6, -3)$   $Q'(-3, 6)$   
 $R(-5, 0)$   $R'(0, 5)$   
 $S(-3, 0)$   $S'(0, 3)$   
 $T(-1, -3)$   $T'(-3, 1)$

Draw the image of the figure under the given rotation.

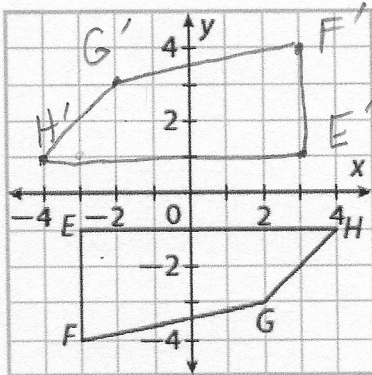
5.  $\triangle ABC$ ;  $270^\circ$



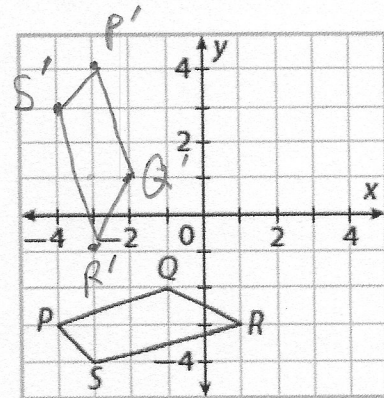
6.  $\triangle RST$ ;  $90^\circ$



7. Quadrilateral EFGH;  $180^\circ$

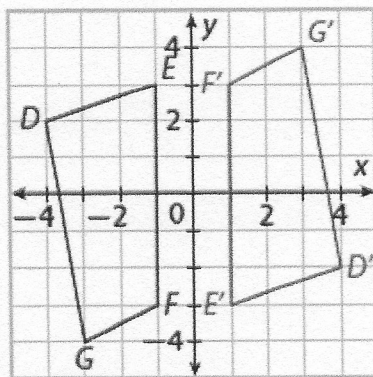


8. Quadrilateral PQRS;  $270^\circ$



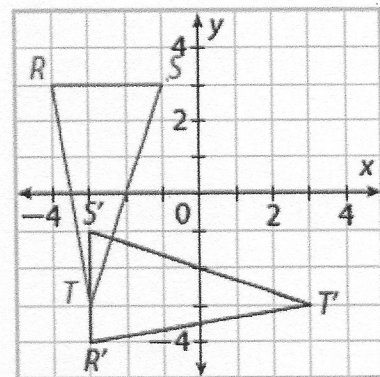
Write an algebraic rule for the rotation shown.

11.



$$(x, y) \rightarrow (-x, -y)$$

12.



$$(x, y) \rightarrow (-y, x)$$