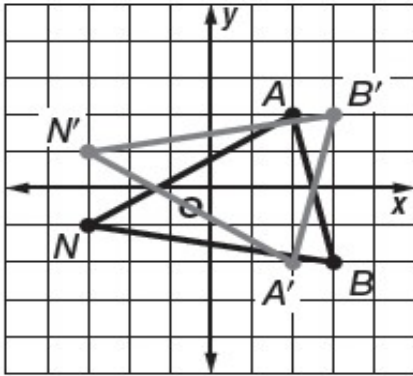
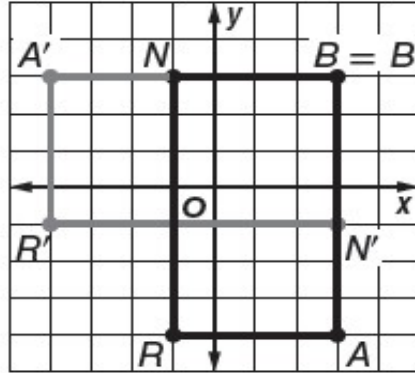


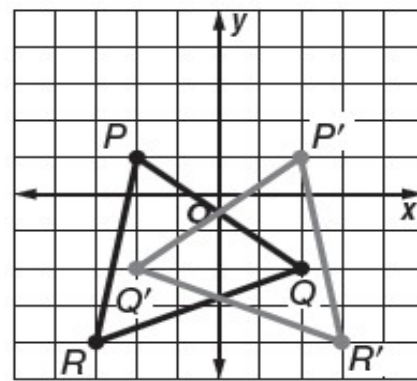
1



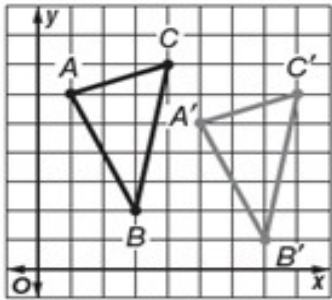
2



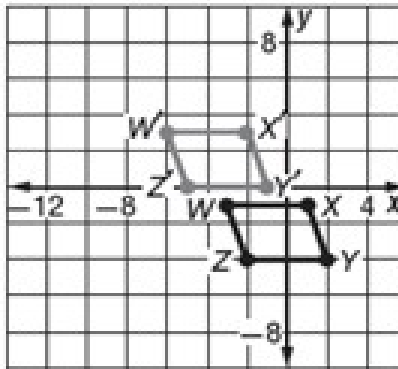
3



4

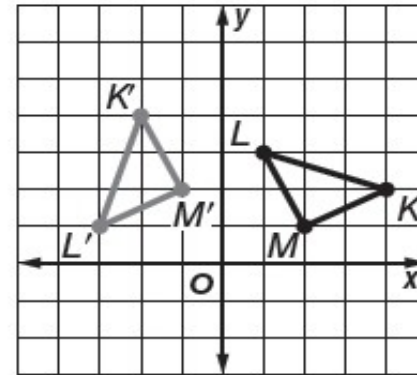


5



6

$K(4,2) \rightarrow K'(-2,4)$
 $L(1,3) \rightarrow L'(-3,1)$
 $M(2,1) \rightarrow M'(-1,2)$

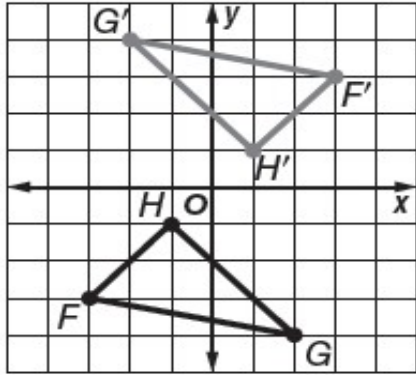


7

$$F(-3, -3) \rightarrow F'(3, 3)$$

$$G(2, -4) \rightarrow G'(-2, 4)$$

$$H(-1, -1) \rightarrow H'(1, 1)$$



8

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

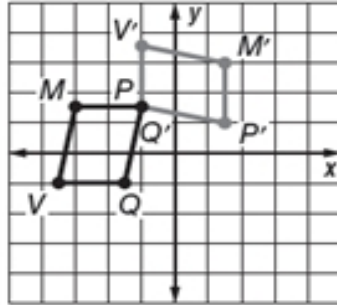
$$(-6, 3) \rightarrow (3, 6)$$

$$(-2, 3) \rightarrow (3, 2)$$

$$(-3, -2) \rightarrow (-2, 3)$$

$$(-7, -2) \rightarrow (-2, 7)$$

Graph $MPQV$ and its image.



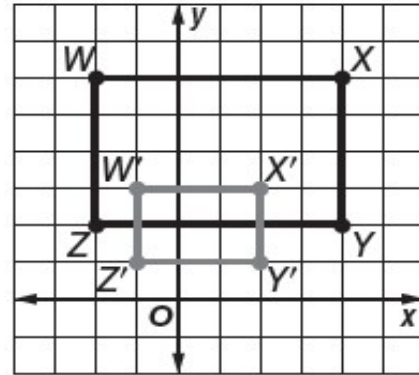
9

$$W(-2, 6) \rightarrow W'(-1, 3)$$

$$X(4, 6) \rightarrow X'(2, 3)$$

$$Y(4, 2) \rightarrow Y'(2, 1)$$

$$Z(-2, 2) \rightarrow Z'(-1, 1)$$



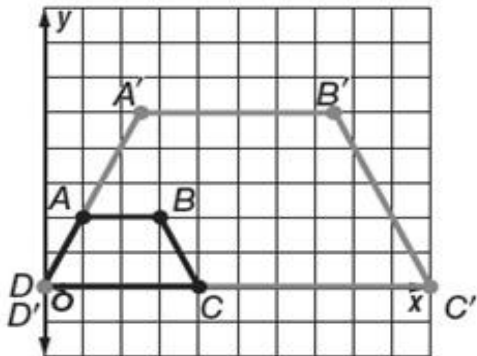
10

$$A(1, 2) \rightarrow A'(2.5, 5)$$

$$B(3, 2) \rightarrow B'(7.5, 5)$$

$$C(4, 0) \rightarrow C'(10, 0)$$

$$D(0, 0) \rightarrow D'(0, 0)$$



- 11 Both
- 12 Both
- 13 Yes, 8, 45°
- 14 No
- 15 Yes, 2, 180°
- 16 Yes, 5
- 17 Yes, 1
- 18 No