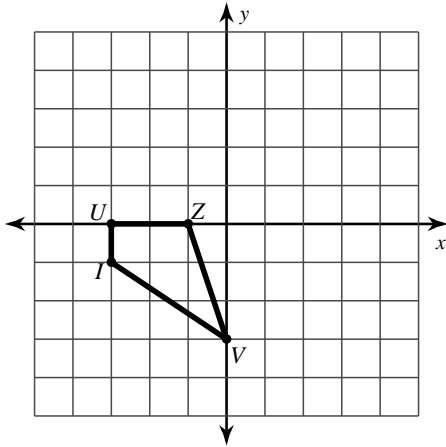


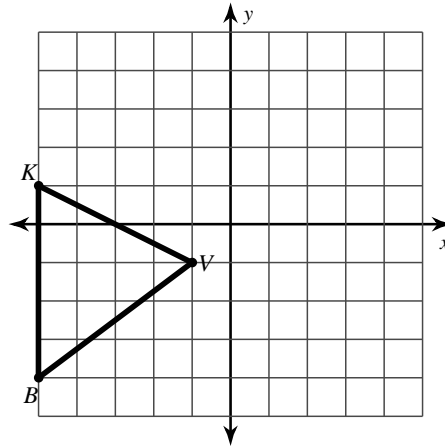
Corrective Assignment 8.3

Graph and label the image of the figure using the transformation given.

- 1) rotation 90° counterclockwise about the origin



- 2) rotation 180° about the origin



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

- 3) rotation 180° about the origin
 $Z(4, -5)$, $W(3, -1)$, $M(5, -1)$

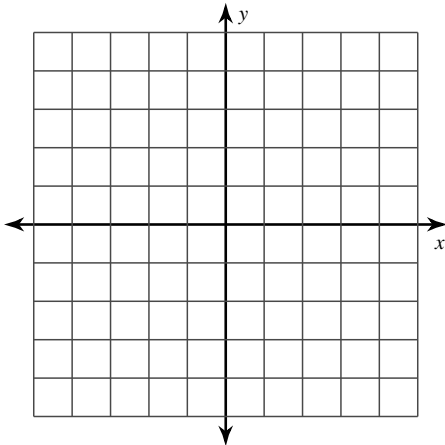
- 4) rotation 90° clockwise about the origin
 $W(-4, -5)$, $H(-5, -3)$, $J(-3, -4)$

- 5) rotation 90° counterclockwise about the origin
 $R(-3, -2)$, $Y(-1, -1)$, $A(-2, -5)$

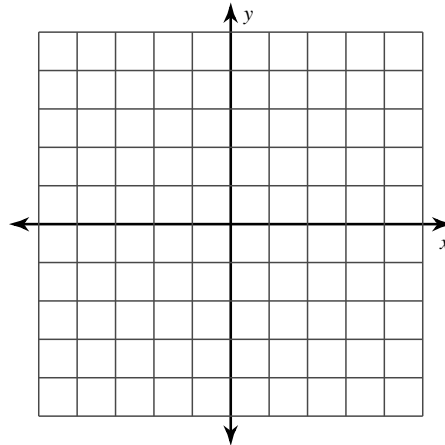
- 6) rotation 90° clockwise about the origin
 $A(-5, 2)$, $M(-3, 3)$, $I(-3, 1)$

Graph the image and the preimage of the figure using the transformation given.

- 7) rotation 180° about the origin
 $V(1, -4)$, $H(4, -3)$, $I(5, -5)$

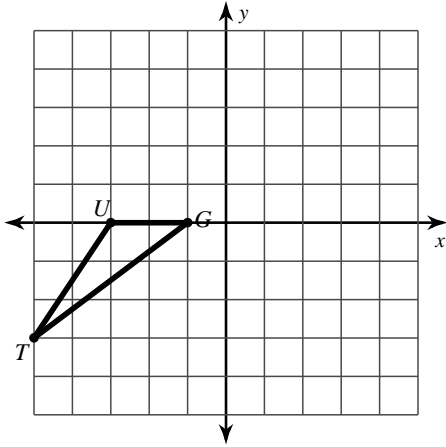


- 8) rotation 90° counterclockwise about the origin
 $Q(2, 0)$, $J(5, 4)$, $M(5, -1)$

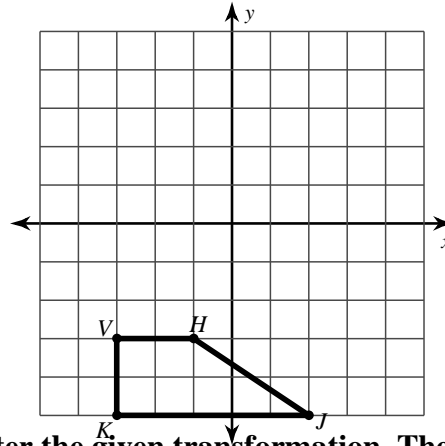


Graph the image and the preimage of the figure using the transformation given.

9) rotation 90° clockwise about the origin

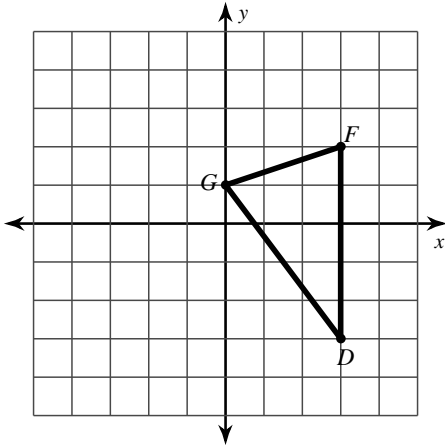


10) rotation 90° counterclockwise about the origin

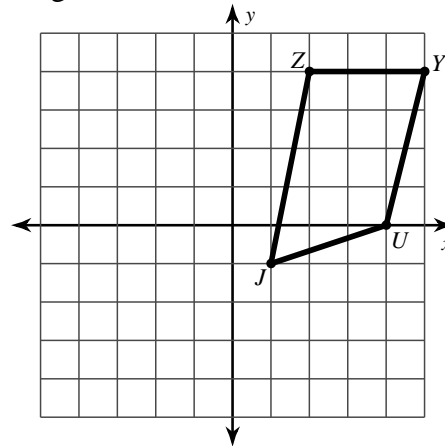


Find the coordinates of the vertices of each figure after the given transformation. Then graph the reflection.

11) rotation 90° clockwise about the origin



12) rotation 90° counterclockwise about the origin

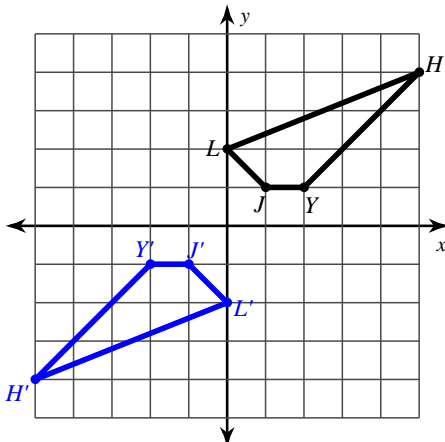


13) rotation 90° counterclockwise about the origin
 $Z(-1, -2)$, $J(-1, 0)$, $A(4, -1)$, $X(2, -3)$

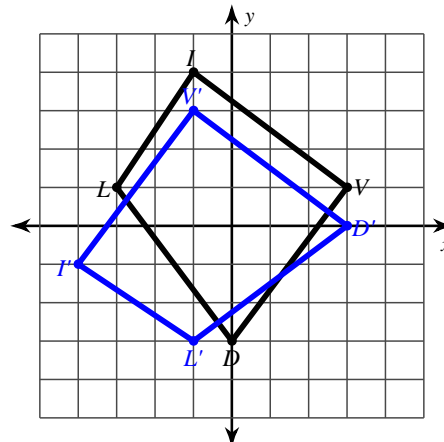
14) rotation 180° about the origin
 $H(0, -3)$, $W(2, -1)$, $M(4, -1)$, $E(2, -4)$

Tell the type of reflection that describes each transformation.

15)



16)

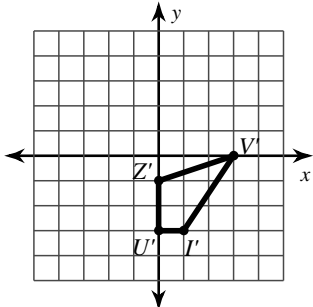


17) $I(-1, -1)$, $F(-3, 2)$, $D(0, 3)$, $X(3, -1)$
 to
 $I'(-1, 1)$, $F'(2, 3)$, $D'(3, 0)$, $X'(-1, -3)$

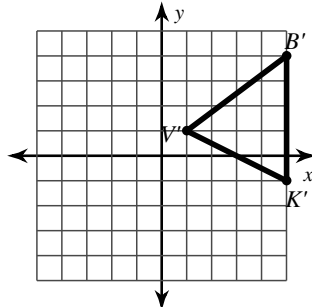
18) $F(-5, -4)$, $Q(-3, 0)$, $U(-2, 0)$, $D(-2, -3)$
 to
 $F'(4, -5)$, $Q'(0, -3)$, $U'(0, -2)$, $D'(3, -2)$

Answers to Practice 8.3

1)



2)



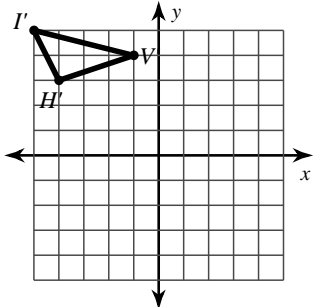
3) $Z'(-4, 5)$, $W'(-3, 1)$, $M'(-5, 1)$

4) $W'(-5, 4)$, $H'(-3, 5)$, $J'(-4, 3)$

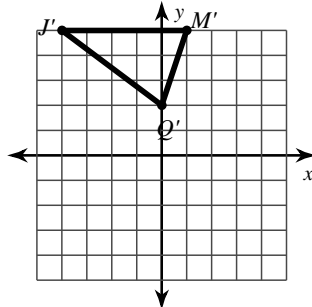
5) $R'(2, -3)$, $Y'(1, -1)$, $A'(5, -2)$

6) $A'(2, 5)$, $M'(3, 3)$, $I'(1, 3)$

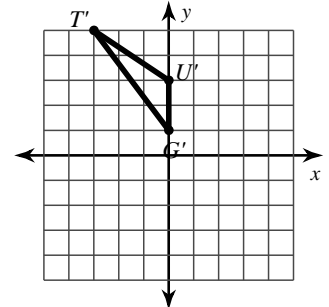
7)



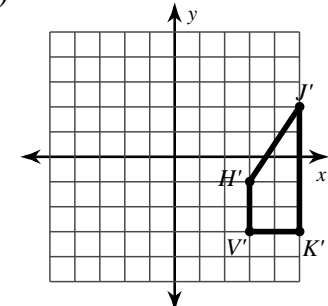
8)



9)



10)



11) $G'(1, 0)$, $F'(2, -3)$, $D'(-3, -3)$

12) $J'(1, 1)$, $Z'(-4, 2)$, $Y'(-4, 5)$, $U'(0, 4)$

13) $Z'(2, -1)$, $J'(0, -1)$, $A'(1, 4)$, $X'(3, 2)$

14) $H'(0, 3)$, $W'(-2, 1)$, $M'(-4, 1)$, $E'(-2, 4)$

15) rotation 180° about the ori

16) rotation 90° counterclockwise about origin

17) rotation 90° clockwise about the ori

18) rotation 90° counterclockwise about origin