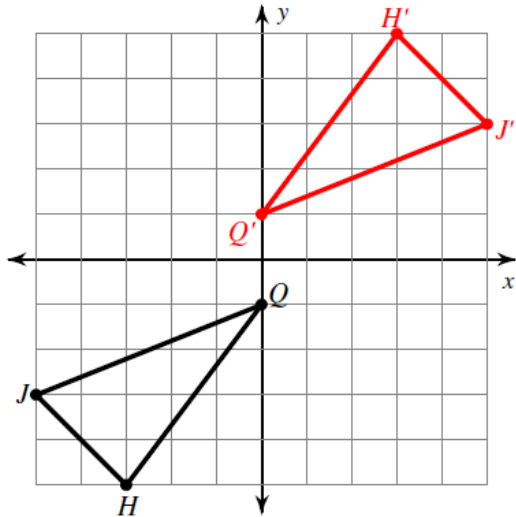


Unit 2 Day 7

Rotations HW answers

Day 7 Homework Answers

1) rotation 180° about the origin



$$H'(3, 5)$$

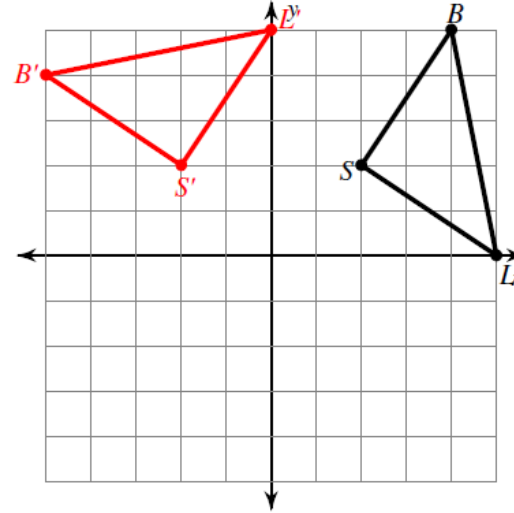
$$J'(5, 3)$$

$$Q'(0, 1)$$

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

$$R_{O, 180}$$

2) rotation 90° counterclockwise about the origin



$$B'(-5, 4)$$

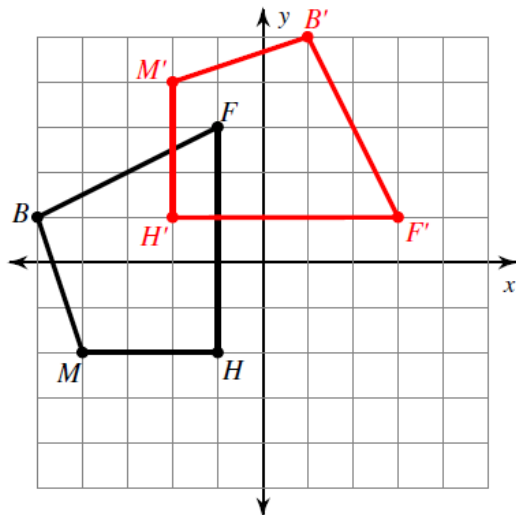
$$L'(0, 5)$$

$$S'(-2, 2)$$

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

$$R_{O, 90}$$

3) rotation 90° clockwise about the origin



$$B'(1, 5)$$

$$F'(3, 1)$$

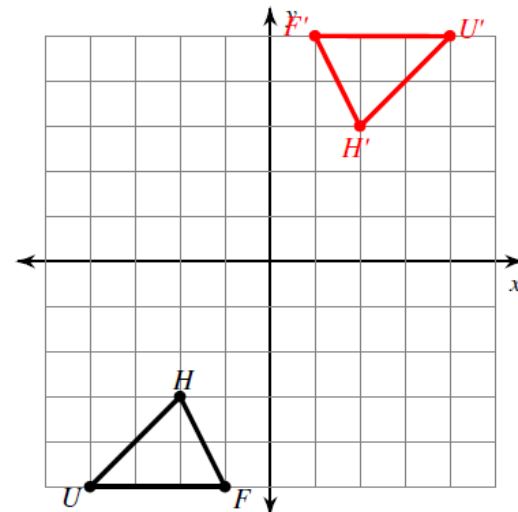
$$H'(-2, 1)$$

$$M'(-2, 4)$$

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

$$R_{O, 270}$$

4) rotation 180° about the origin



$$F'(1, 5)$$

$$H'(2, 3)$$

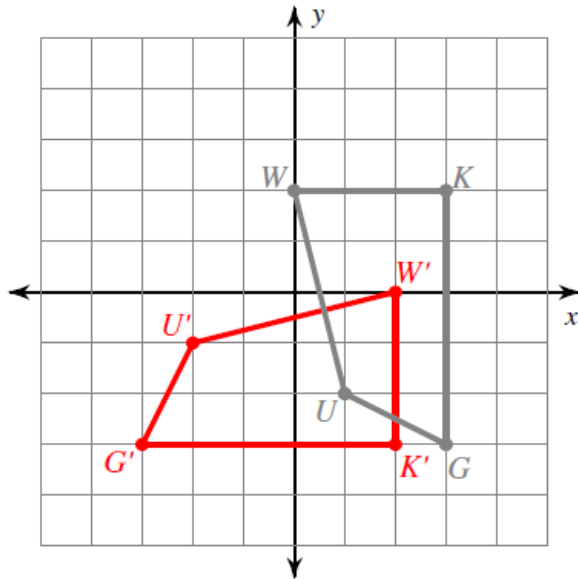
$$U'(4, 5)$$

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

$$R_{O, 180}$$

Day 7 Homework Answers

- 5) rotation 90° clockwise about the origin
 $U(1, -2), W(0, 2), K(3, 2), G(3, -3)$



$$U'(-2, -1)$$

$$W'(2, 0)$$

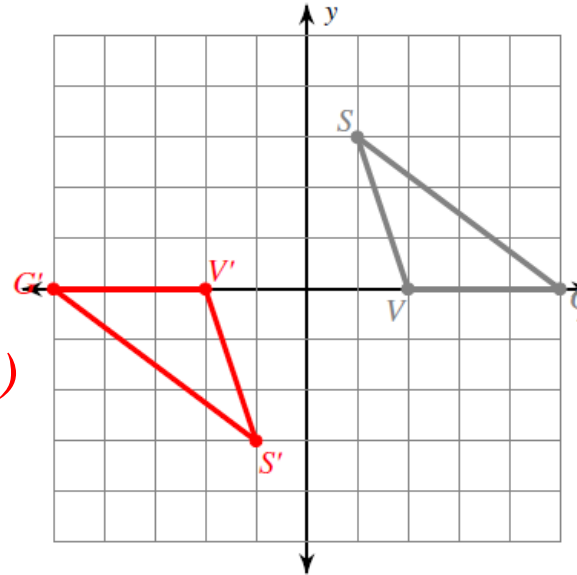
$$K'(2, -3)$$

$$G'(-3, -3)$$

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

$$R_{O, 270}$$

- 6) rotation 180° about the origin
 $V(2, 0), S(1, 3), G(5, 0)$



$$V'(-2, 0)$$

$$S'(-1, -3)$$

$$G'(-5, 0)$$

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

$$R_{O, 180}$$

- 7) rotation 180° about the origin
 $Z(-1, -5), K(-1, 0), C(1, 1), N(3, -2)$
 $Z'(1, 5), K'(1, 0), C'(-1, -1), N'(-3, 2)$
 $(x, y) \rightarrow (-x, -y)$

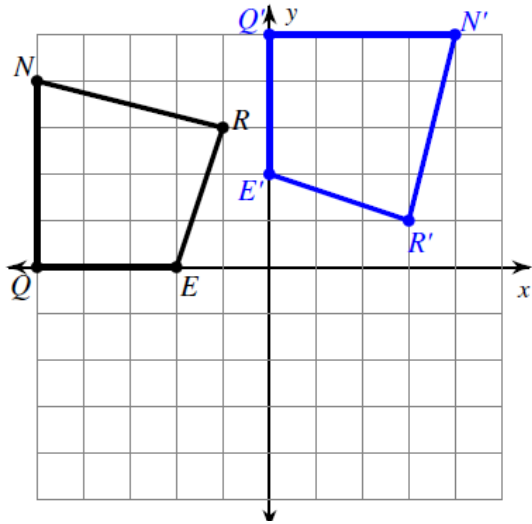
- 8) rotation 180° about the origin
 $L(1, 3), Z(5, 5), F(4, 2)$
 $L'(-1, -3), Z'(-5, -5), F'(-4, -2)$
 $(x, y) \rightarrow (-x, -y)$

- 9) rotation 90° clockwise about the origin
 $S(1, -4), W(1, 0), J(3, -4)$
 $S'(-4, -1), W'(0, -1), J'(-4, -3)$
 $(x, y) \rightarrow (y, -x)$

- 10) rotation 180° about the origin
 $V(-5, -3), A(-3, 1), G(0, -3)$
 $V'(5, 3), A'(3, -1), G'(0, 3)$
 $(x, y) \rightarrow (-x, -y)$

Day 7 HW Answers

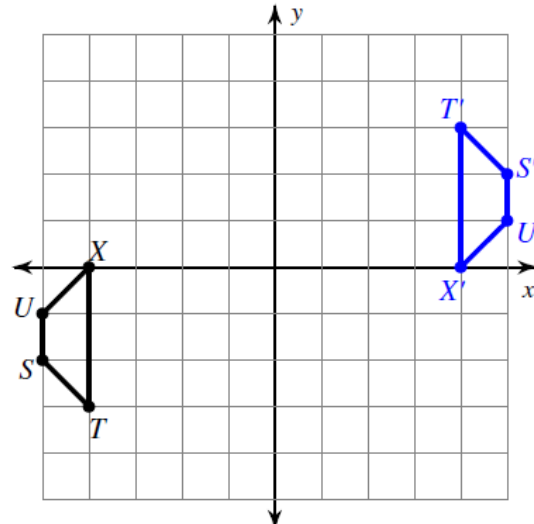
11)



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

rotation 270° about the origin

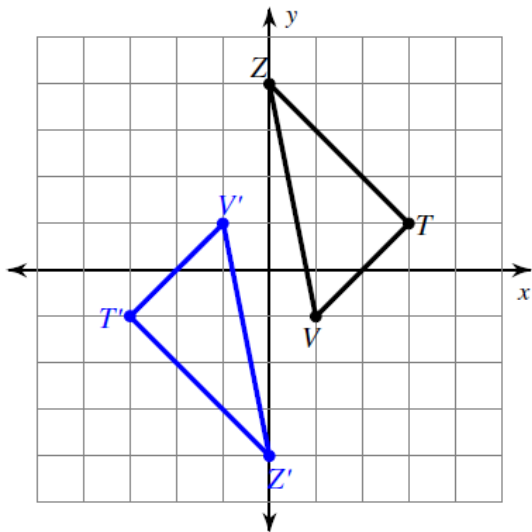
12)



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

rotation 180° about the origin

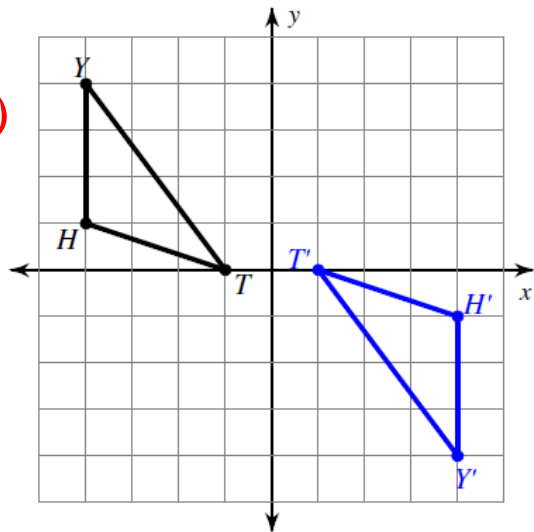
13)



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

rotation 180° about the origin

14)



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

rotation 180° about the origin