Name_____ Date_____

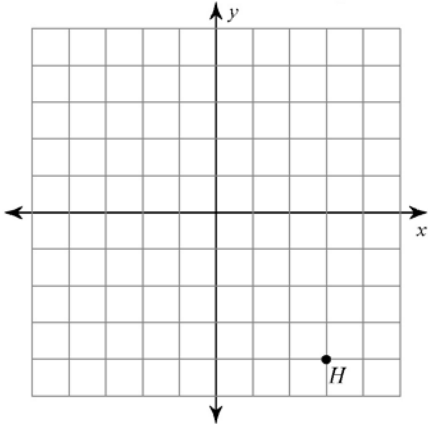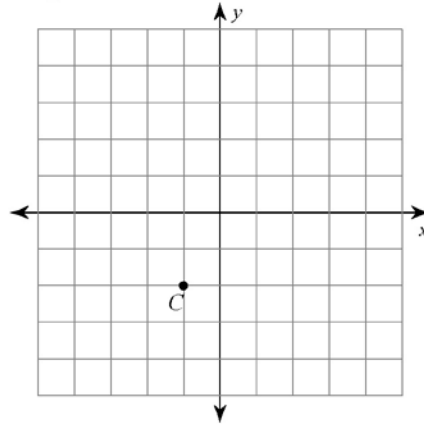# 9.4 – Rotations

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

1) rotation 180° about the origin
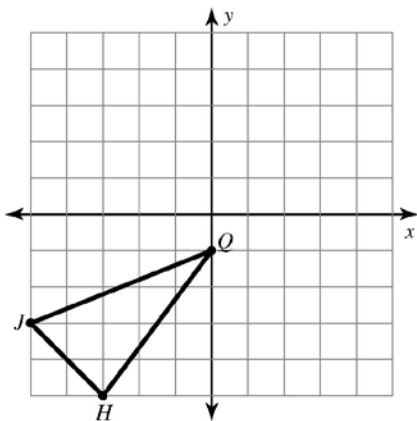

2) rotation 90° counterclockwise about the origin
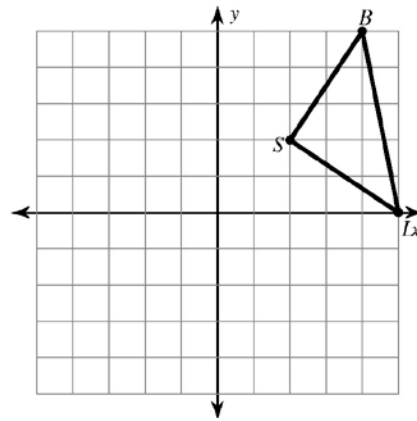

Graph the image of the figure using the given transformation
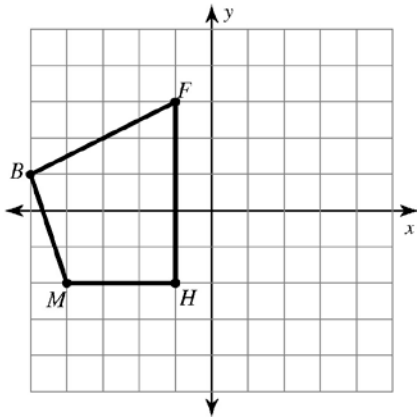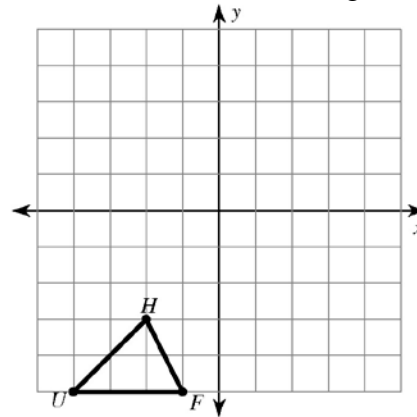
3) rotation 180° about the origin

4) rotation 90° counterclockwise about the origin

5) rotation 90° clockwise about the origin
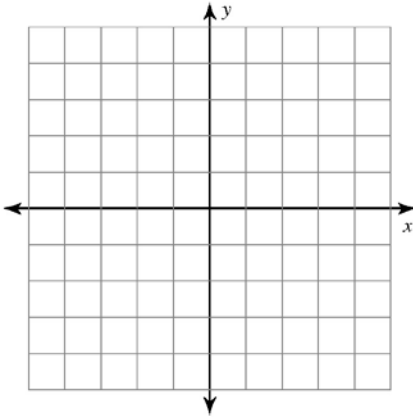

6) rotation 180° about the origin
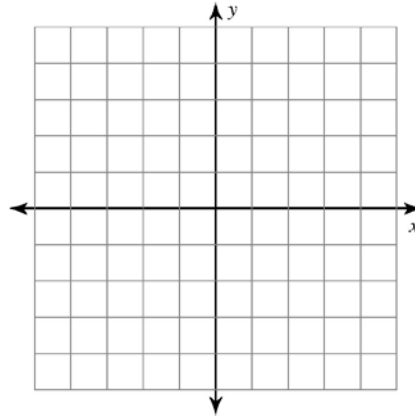
Graph the following points and then graph the image of the figure using the given transformation.

7) U(1, −2), W(0, 2), K(3, 2), G(3, −3)
   rotation 90° clockwise about the origin

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

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

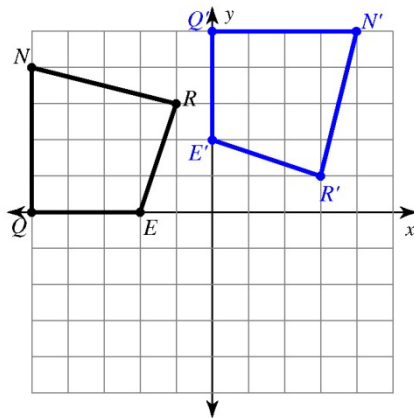9) rotation 180° about the origin
   Z(−1, −5), K(−1, 0), C(1, 1), N(3, −2)

10) rotation 180° about the origin
    L(1, 3), Z(5, 5), F(4, 2)

11) rotation 90° clockwise about the origin
    S(1, −4), W(1, 0), J(3, −4)

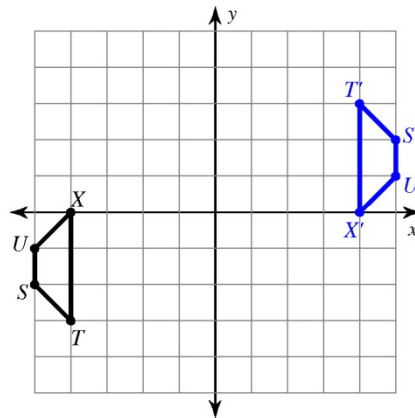12) rotation 180° about the origin
    V(−5, −3), A(−3, 1), G(0, −3)

Write a rule to describe each transformation.

13) _____
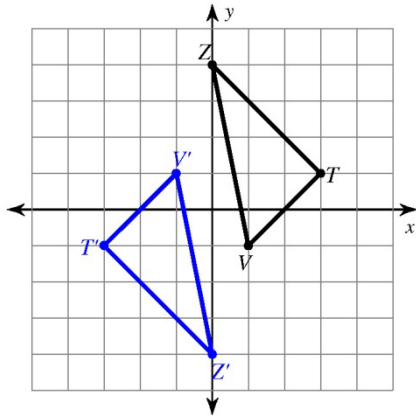

14) _____

15)

16)