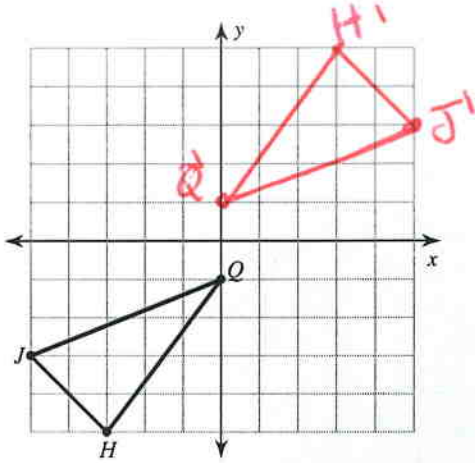


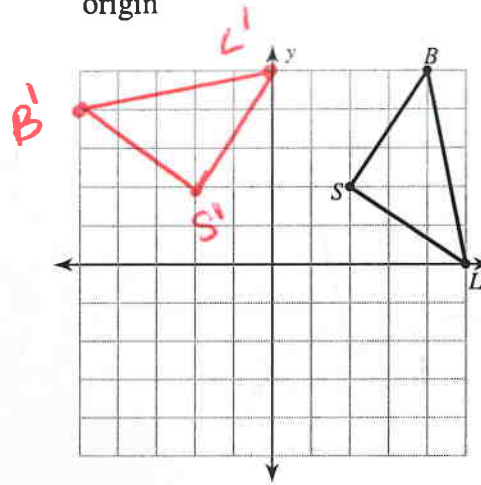
Rotations of Shapes

Graph the image of the figure using the transformation given.

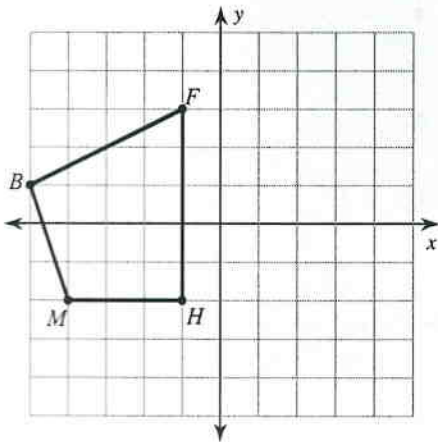
1) rotation 180° about the origin



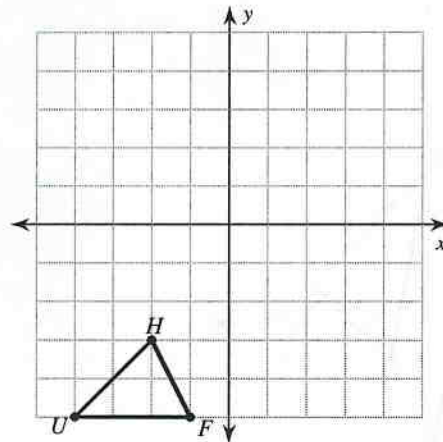
2) rotation 90° counterclockwise about the origin



3) rotation 90° clockwise about the origin

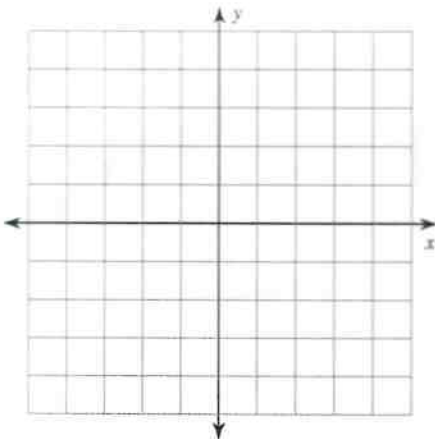


4) rotation 180° about the origin



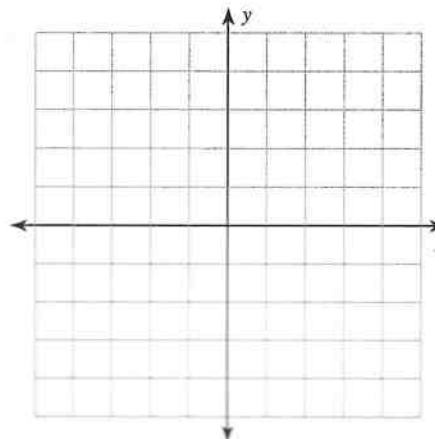
5) rotation 90° clockwise about the origin

$U(1, -2), W(0, 2), K(3, 2), G(3, -3)$



6) rotation 180° about the origin

$V(2, 0), S(1, 3), G(5, 0)$



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

7) rotation 180° about the origin

$Z(-1, -5), K(-1, 0), C(1, 1), N(3, -2)$

8) rotation 180° about the origin

$L(1, 3), Z(5, 5), F(4, 2)$

9) rotation 90° clockwise about the origin

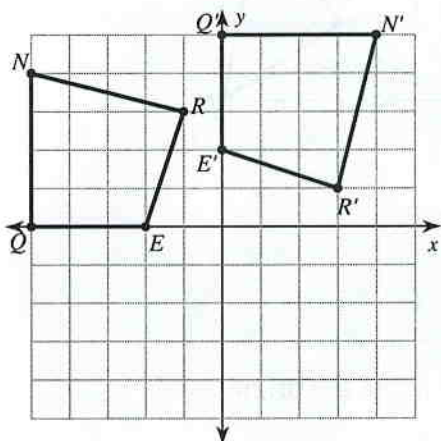
$S(1, -4), W(1, 0), J(3, -4)$

10) rotation 180° about the origin

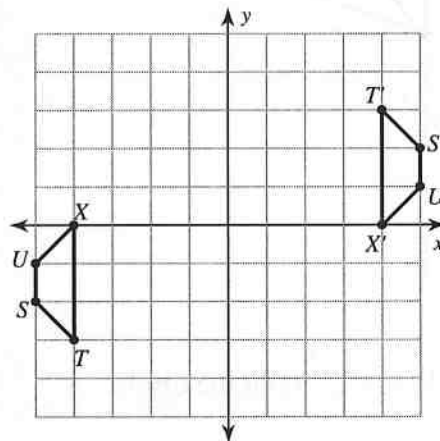
$V(-5, -3), A(-3, 1), G(0, -3)$

Write a rule to describe each transformation.

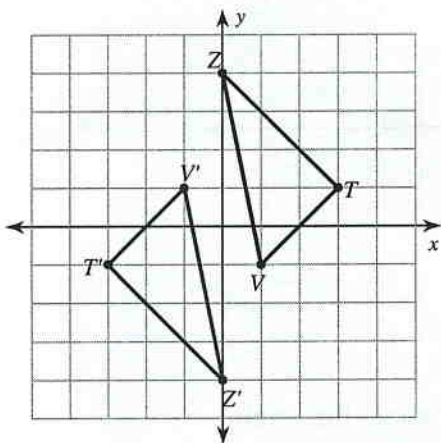
11)



12)



13)



14)

