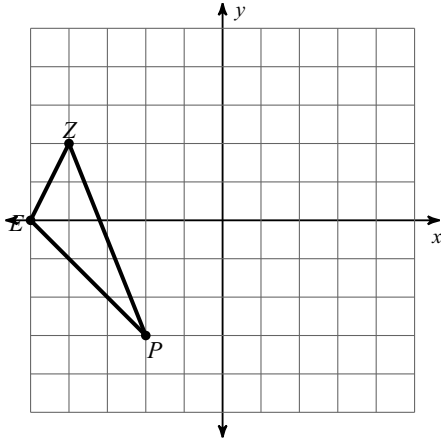


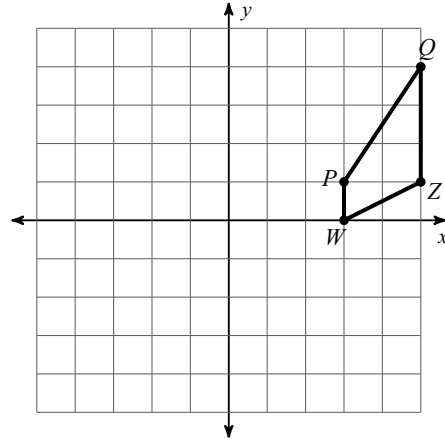
13.3a Rotations Day 1

Graph the image of the figure using the transformation given. Then find the coordinates of the vertices of the image (the figure after the rotation).

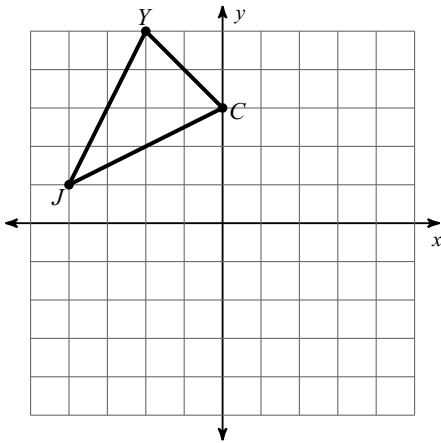
1) rotation 180° about the origin



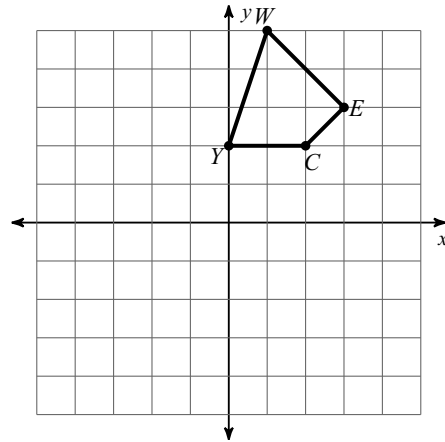
2) rotation 90° clockwise about the origin



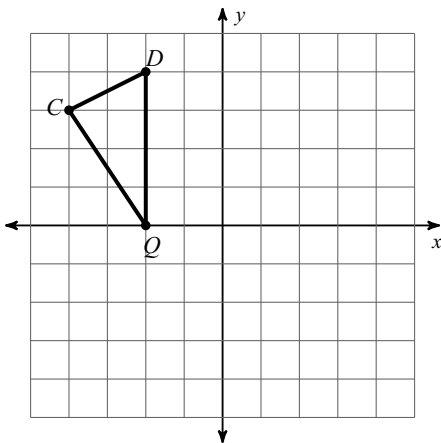
3) rotation 90° counterclockwise about the origin



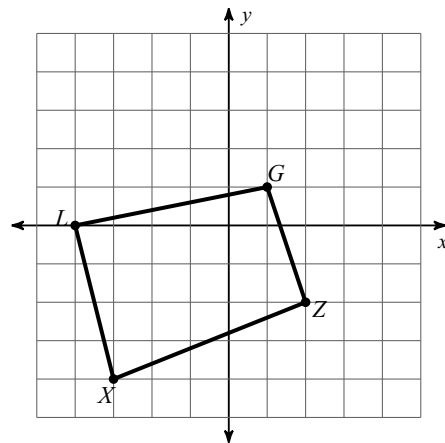
4) rotation 180° about the origin



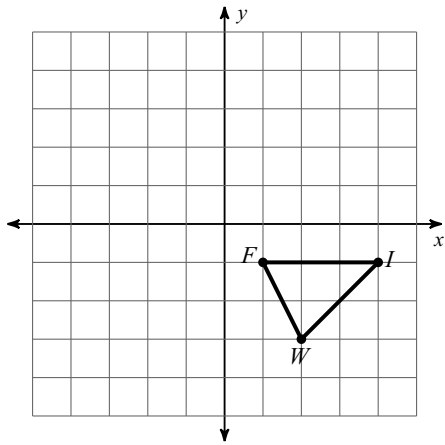
5) rotation 180° about the origin



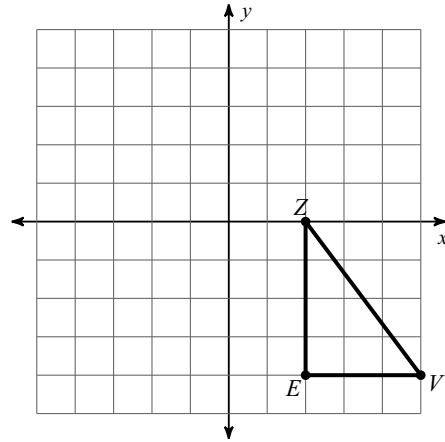
6) rotation 90° clockwise about the origin



7) rotation 90° clockwise about the origin

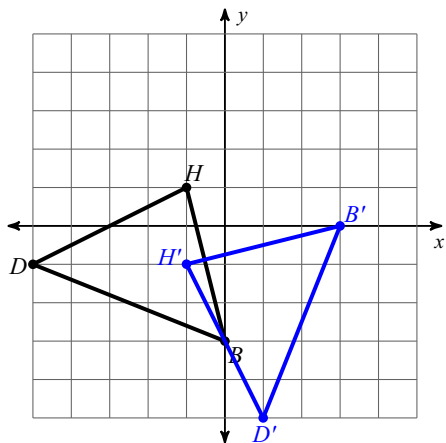


8) rotation 90° counterclockwise about the origin

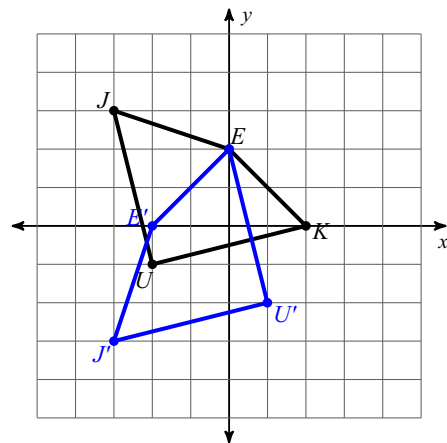


Write a rule to describe each transformation.

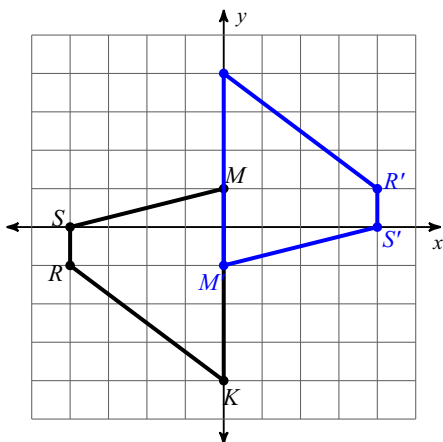
9)



10)



11)



12)

