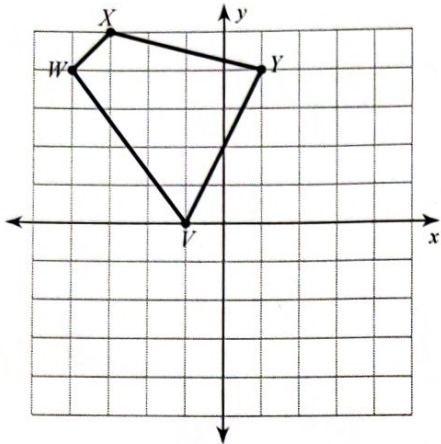


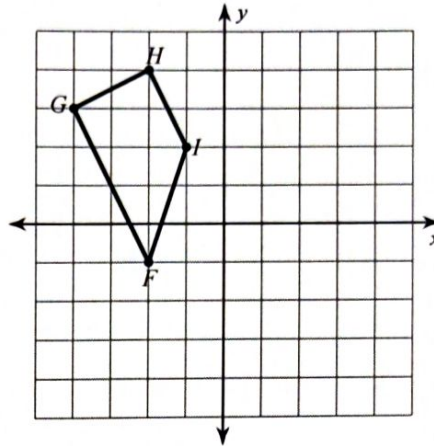
10-3 Rotations_hw

Graph the image of the figure using the transformation given. **SHOW YOUR WORK!**

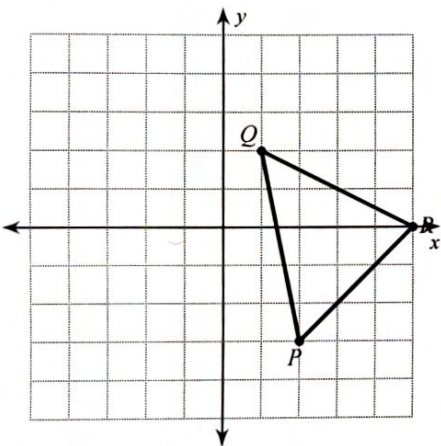
1) rotation 90° clockwise about the origin



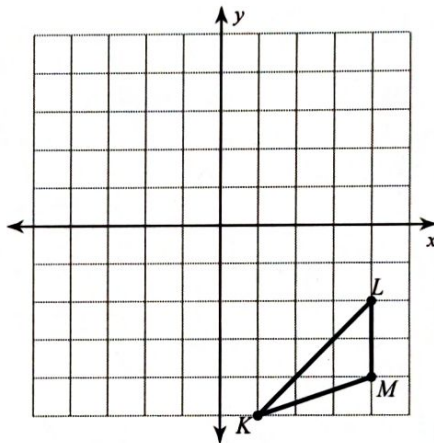
2) rotation 90° clockwise about the origin



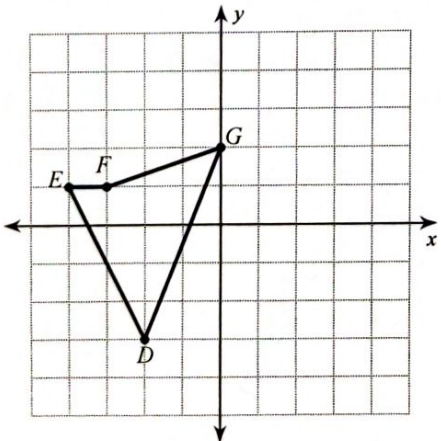
3) rotation 90° counterclockwise about the origin



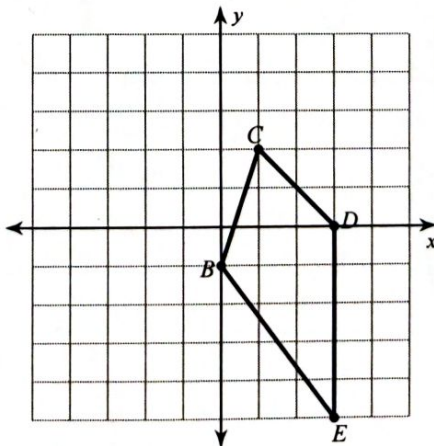
4) rotation 90° counterclockwise about the origin



5) rotation 180° about the origin



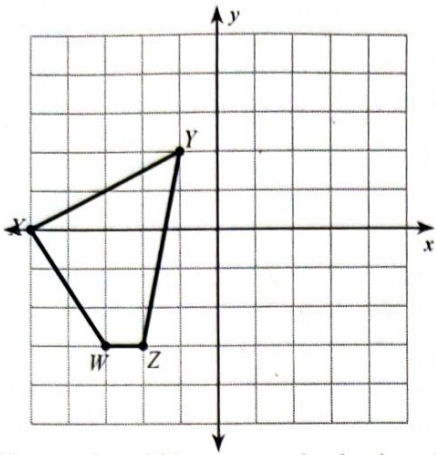
6) rotation 180° about the origin



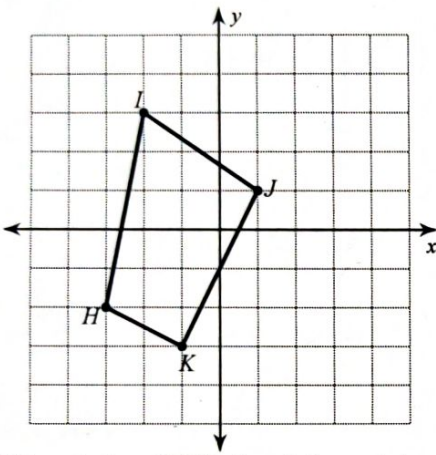
Common Rotations about the Origin

90° Clockwise	$(x, y) \rightarrow (y, -x)$
90° Counterclockwise	$(x, y) \rightarrow (-y, x)$
180°	$(x, y) \rightarrow (-x, -y)$

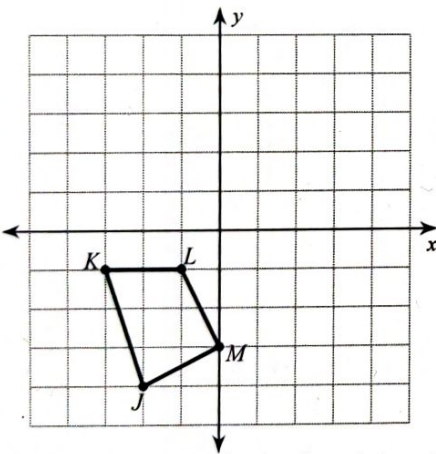
7) rotation 90° clockwise about the origin



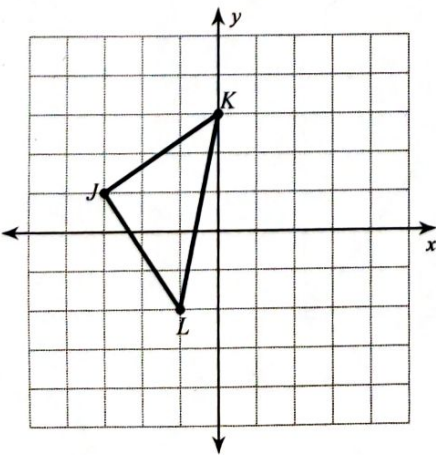
9) rotation 90° counterclockwise about the origin



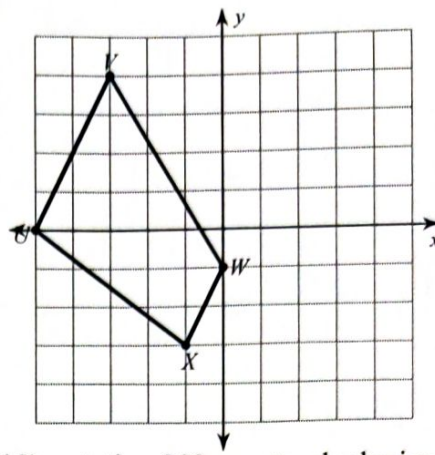
11) rotation 180° about the origin



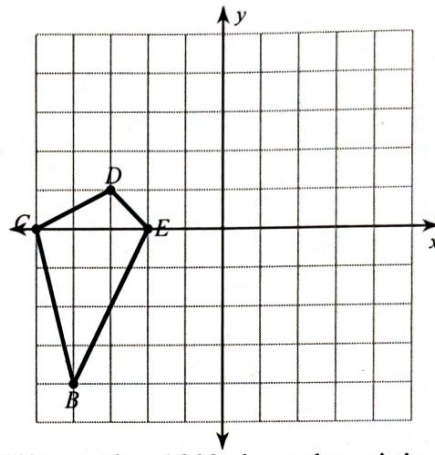
13) rotation 90° clockwise about the origin



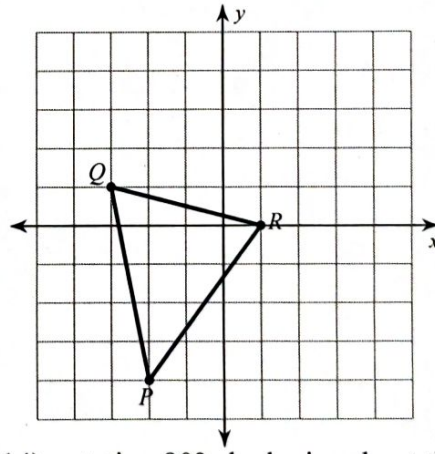
8) rotation 90° clockwise about the origin



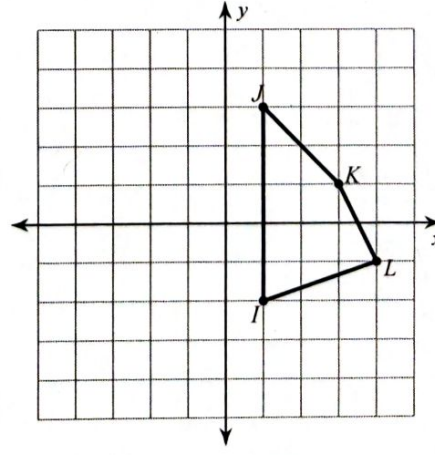
10) rotation 90° counterclockwise about the origin



12) rotation 180° about the origin



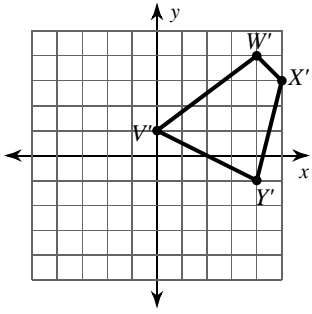
14) rotation 90° clockwise about the origin



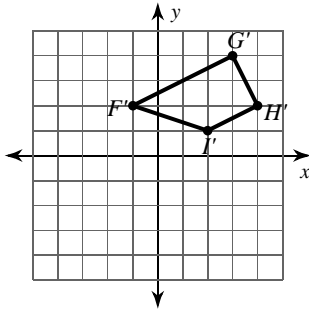
Common Rotations about the Origin	
90° Clockwise	$(x, y) \rightarrow (y, -x)$
90° Counterclockwise	$(x, y) \rightarrow (-y, x)$
180°	$(x, y) \rightarrow (-x, -y)$

Answers to 10-3 Rotations_hw

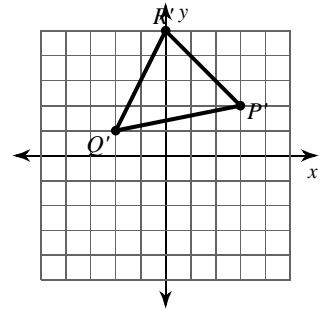
1)



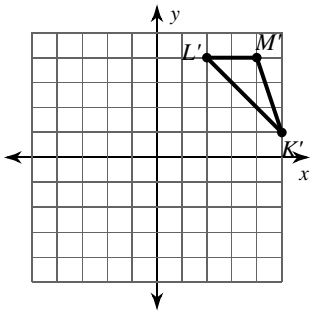
2)



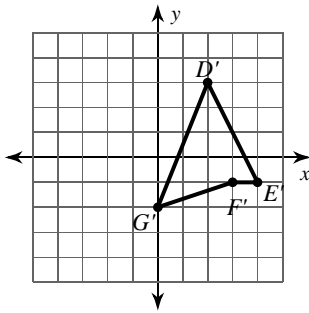
3)



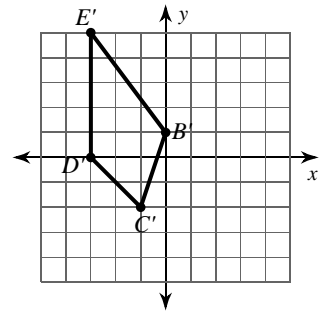
4)



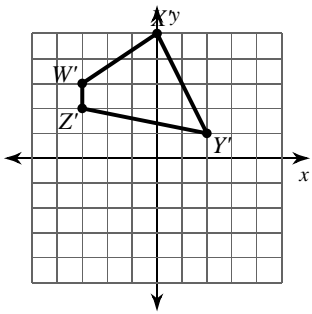
5)



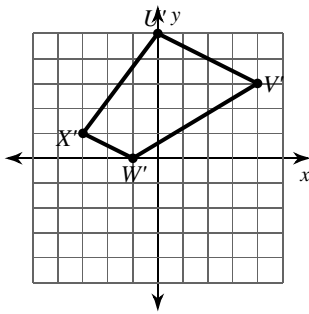
6)



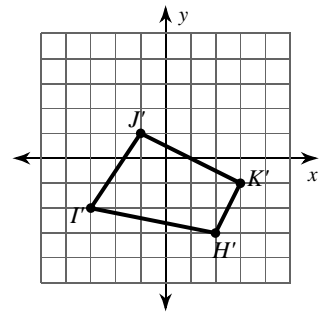
7)



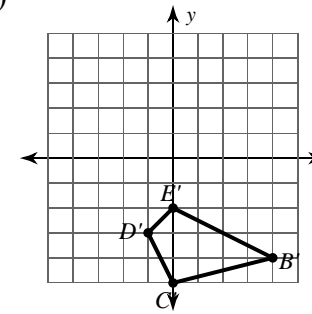
8)



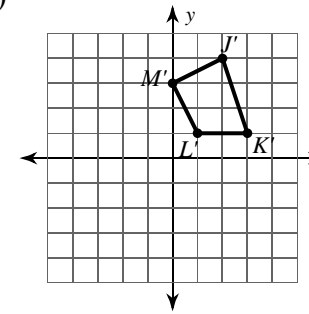
9)



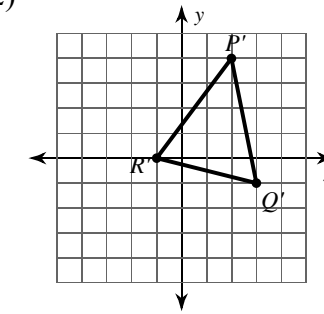
10)



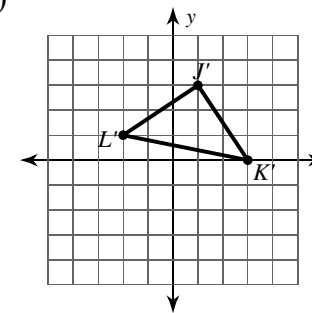
11)



12)



13)



14)

