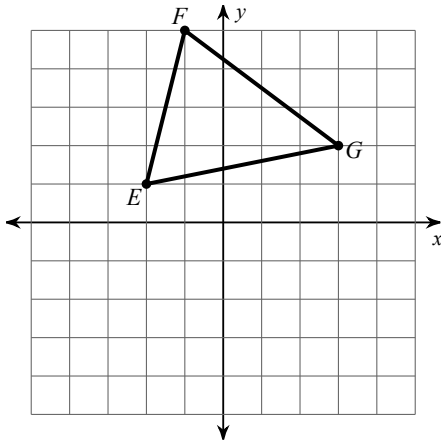


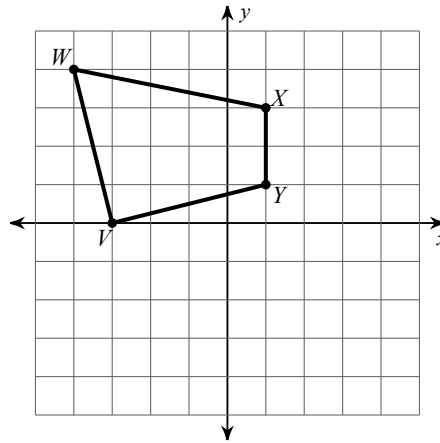
Lesson 1-1 Rotations Homework

Graph the image of the figure using the transformation given.

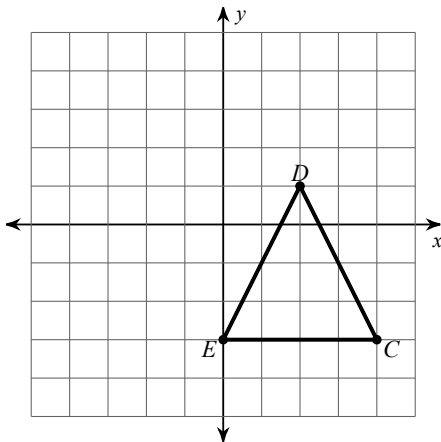
1) rotation 90° clockwise about the origin



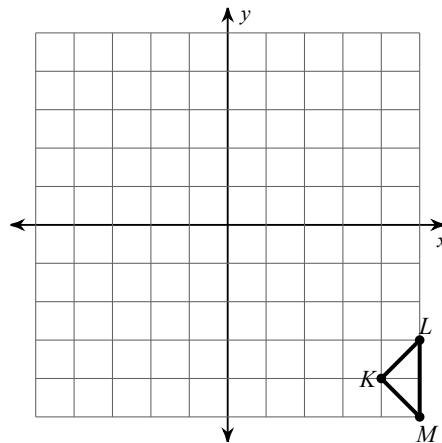
2) rotation 90° counterclockwise about the origin



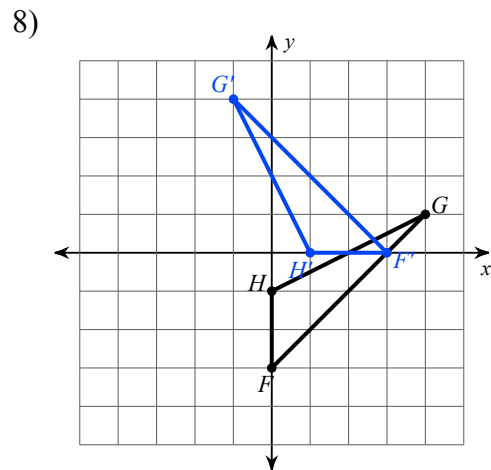
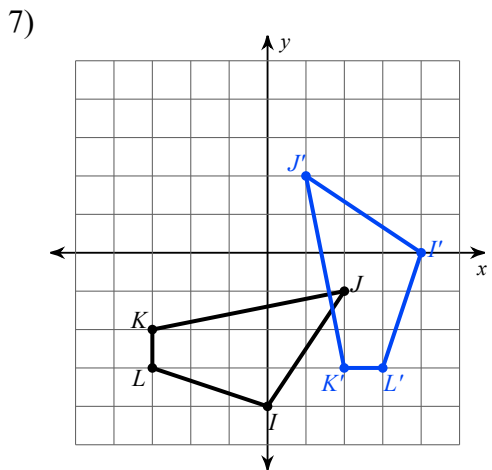
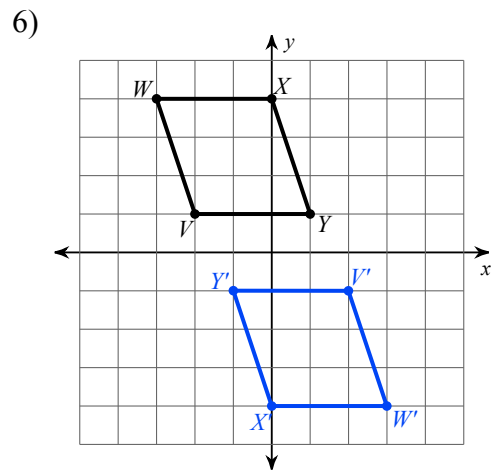
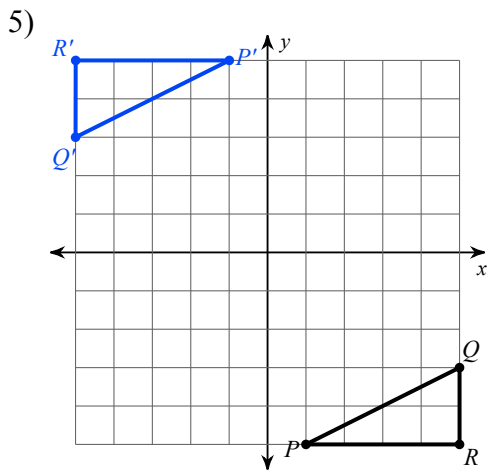
3) rotation 90° counterclockwise about the origin



4) rotation 90° clockwise about the origin



Write a rule to describe each transformation.



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

9) rotation 180° about the origin
 $R(2, -5), S(3, -1), T(5, -4)$

10) rotation 90° clockwise about the origin
 $F(2, 0), G(2, 4), H(5, 0)$

11) rotation 180° about the origin
 $G(1, 1), H(1, 3), I(4, 3)$

12) rotation 90° clockwise about the origin
 $B(0, -4), C(1, 0), D(4, -5)$