Kuta Software - Infinite Pre-Algebra

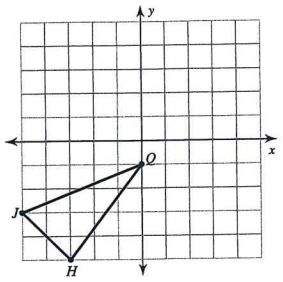
Name_____

Rotations of Shapes

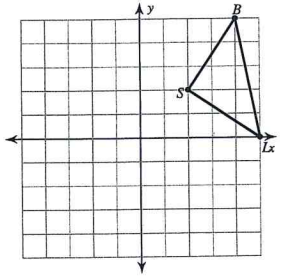
Date_____ Period____

Graph the image of the figure using the transformation given.

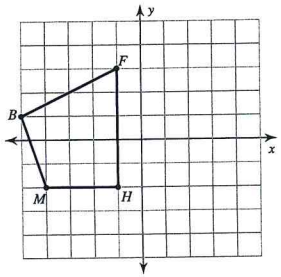
1) rotation 180° about the origin



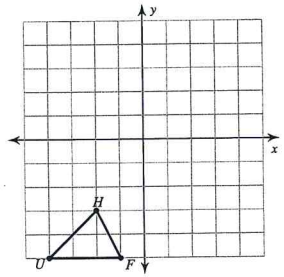
2) rotation 90° counterclockwise about the origin



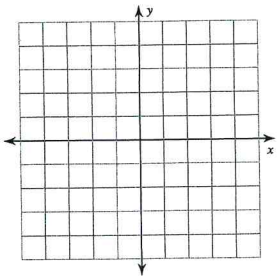
3) rotation 90° clockwise about the origin



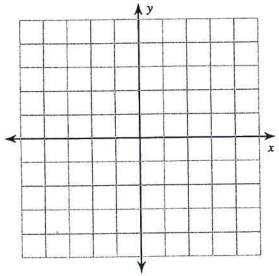
4) rotation 180° about the origin



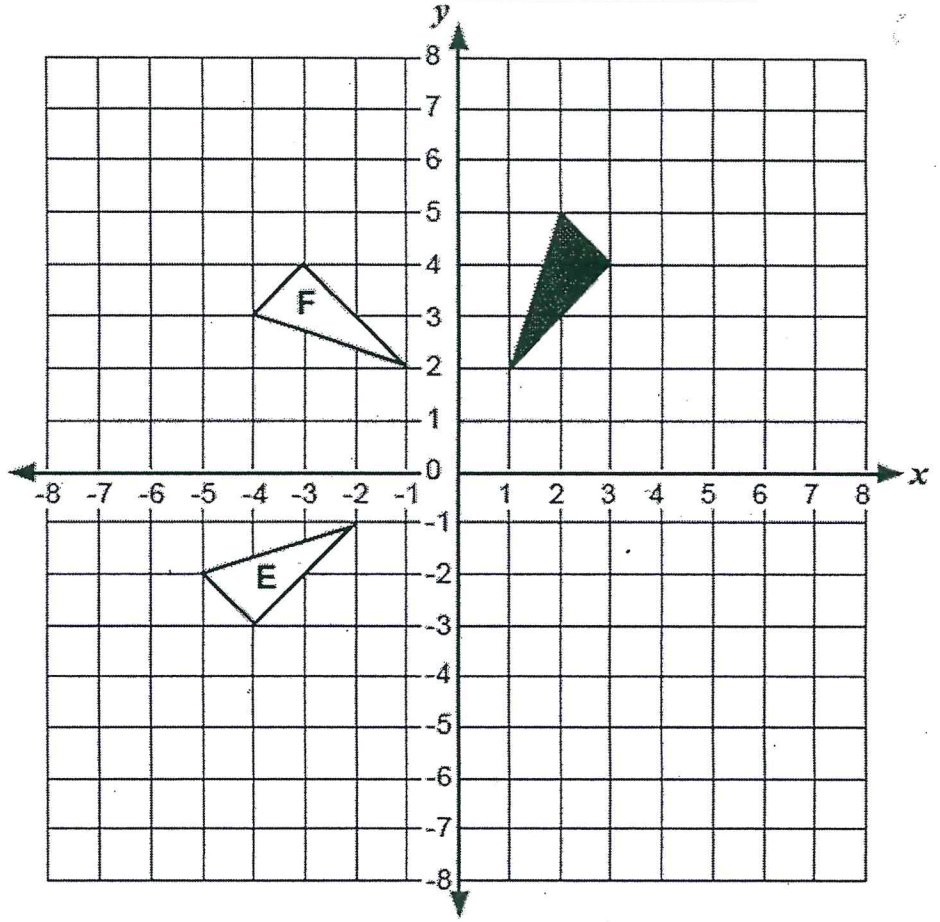
5) rotation 90° clockwise about the origin
$U(1, -2)$, $W(0, 2)$, $K(3, 2)$, $G(3, -3)$



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



Transformations Name_____



1. Draw the shaded triangle after:
a) It has been translated −7 horizontally and +1 vertically. Label your answer *A*.
b) It has been reflected over the *x*-axis. Label your answer *B*.
c) It has been rotated 90° clockwise around the origin. Label your answer *C*.
d) It has been reflected over the line $y = x$. Label your answer *D*.

2. Describe fully the single transformation that:
a) Takes the shaded triangle onto the triangle labeled *E*.

b) Takes the shaded triangle onto the triangle labeled *F*.

3. Describe a single transformation that has the same effect as rotating a shape 90° clockwise around the origin, then reflecting the result over the *x*-axis.