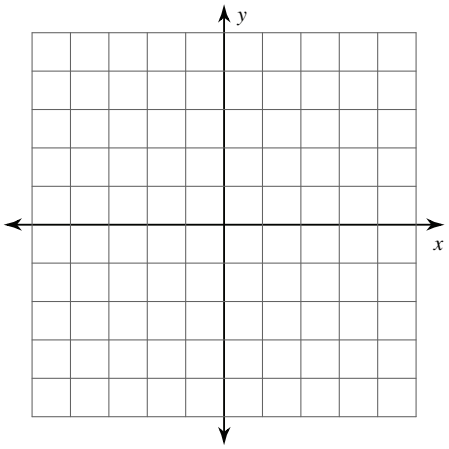
Geometry Name_____

14.2-14.4 Review Day 3

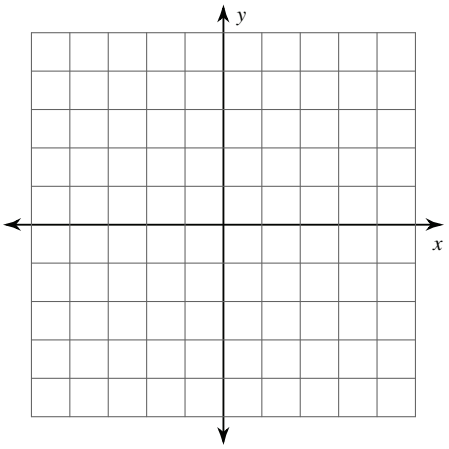
Date_____ Period____

Graph the image of the figure using the transformation given.

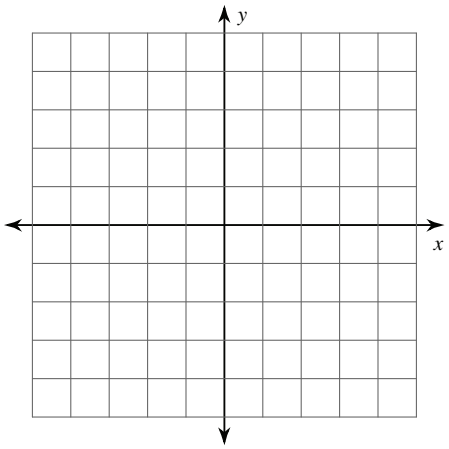
1) translation: $(x, y) \rightarrow (x + 1, y - 3)$
$K(0, -1)$



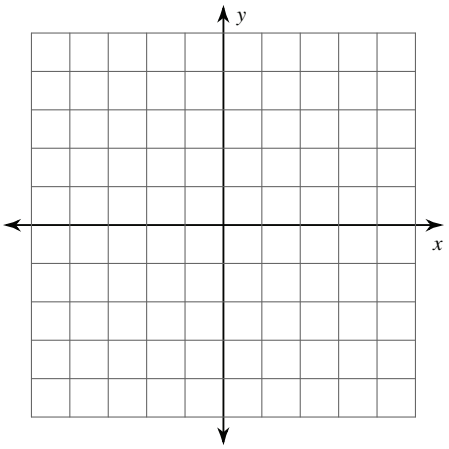
2) translation: $(x, y) \rightarrow (x + 1, y - 3)$
$X(-3, 2)$, $W(-1, 5)$, $P(0, 0)$



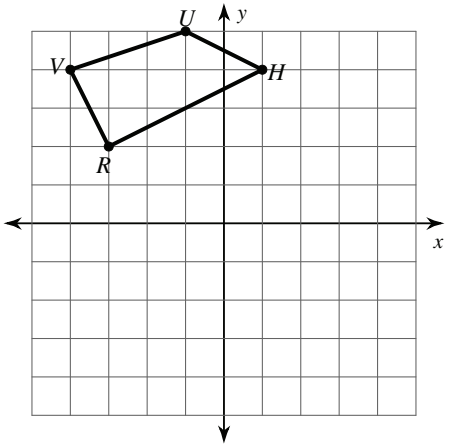
3) translation: $(x, y) \rightarrow (x - 1, y - 1)$
$B(-4, -3)$



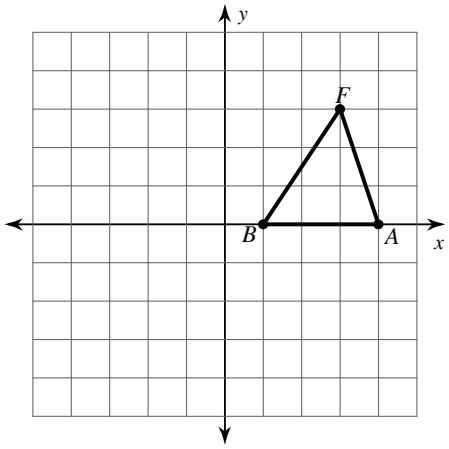
4) translation: $(x, y) \rightarrow (x - 8, y - 1)$
$C(4, 3)$



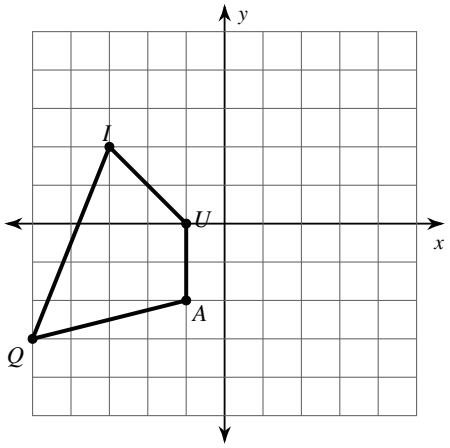
5) translation: $(x, y) \rightarrow (x + 2, y - 1)$



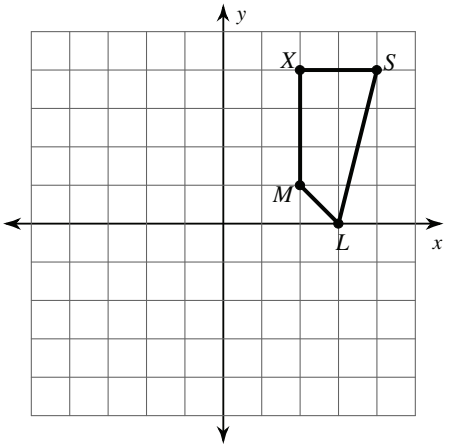
6) translation: $(x, y) \rightarrow (x - 6, y - 2)$



7) translation: $(x, y) \rightarrow (x + 5, y + 2)$

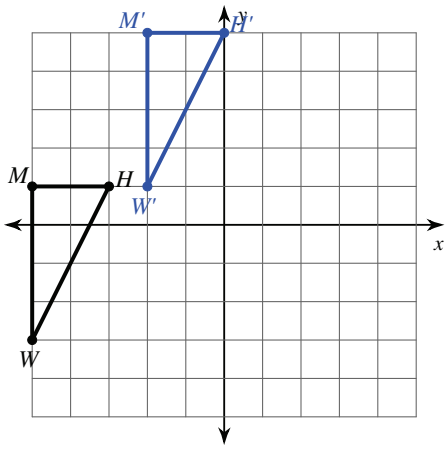


8) translation: $(x, y) \rightarrow (x + 1, y + 1)$

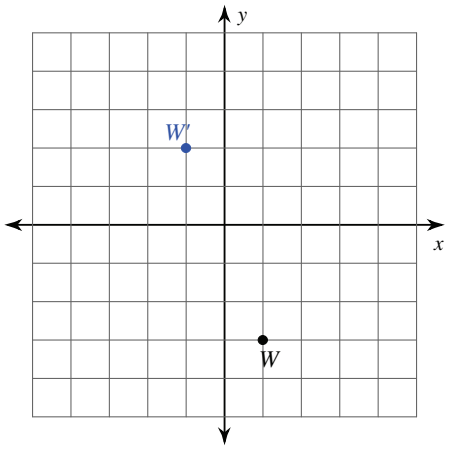


Write a rule to describe each transformation.

9)

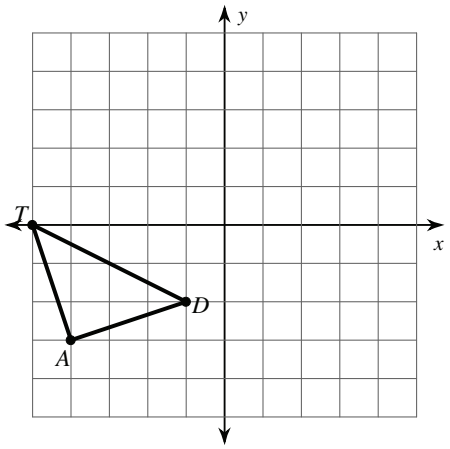


10)

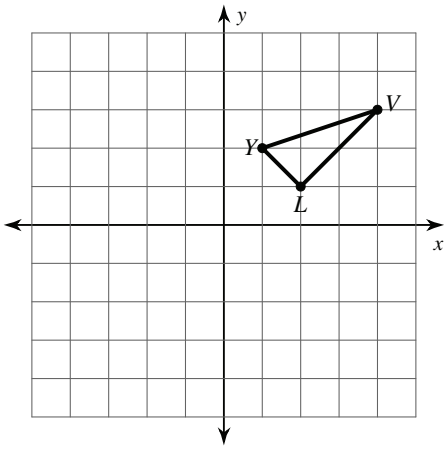


Graph the image of the figure using the transformation given.

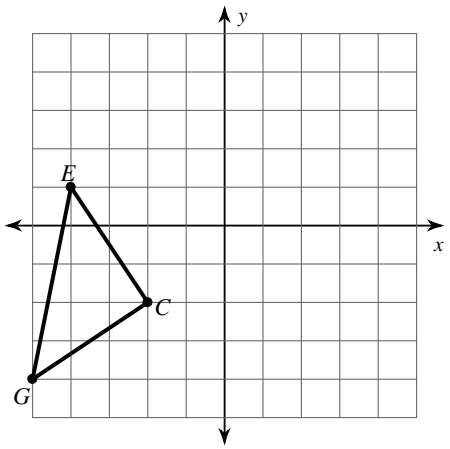
11) reflection across $y = -x$



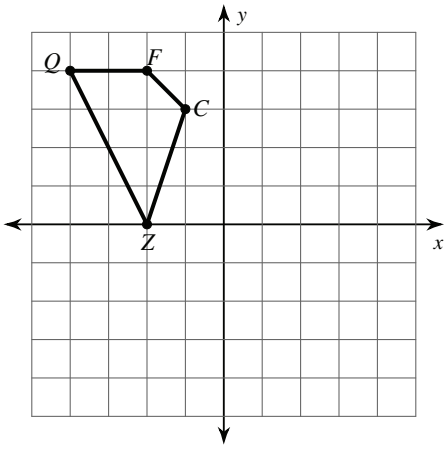
12) reflection across $y = 3$



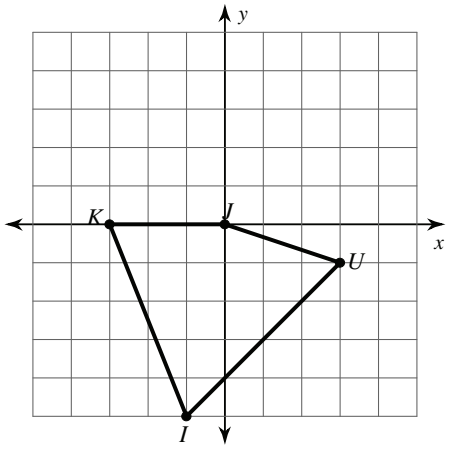
13) reflection across $y = -x$



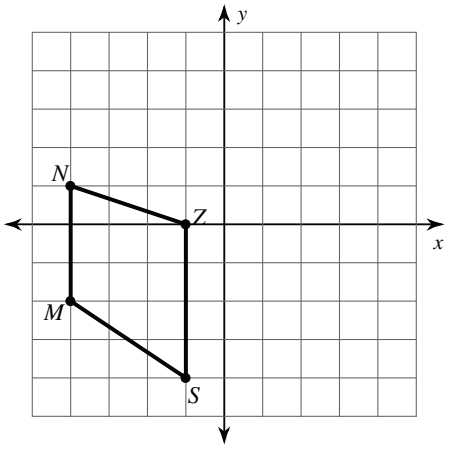
14) reflection across the x-axis



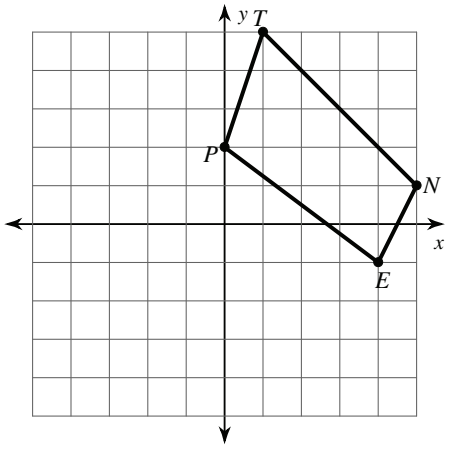
15) reflection across $y = x$



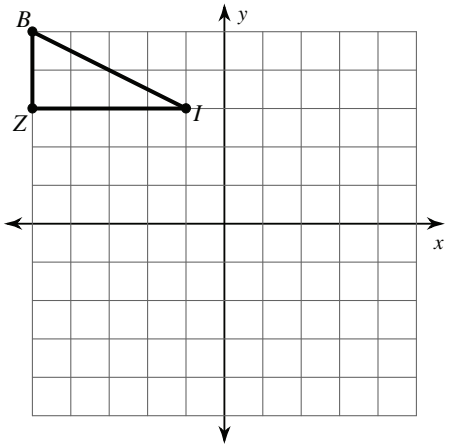
16) reflection across $x = -3$



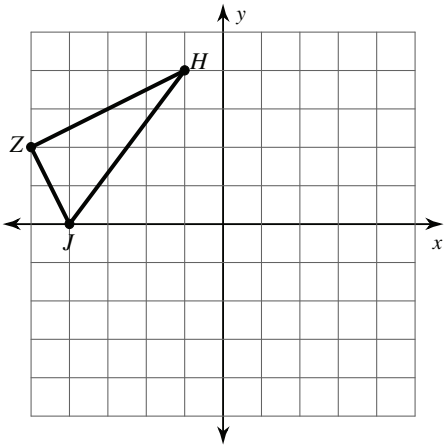
17) rotation 180° about the origin



18) rotation 90° counterclockwise about the origin



19) rotation 90° clockwise about the origin



20) rotation 180° about the origin