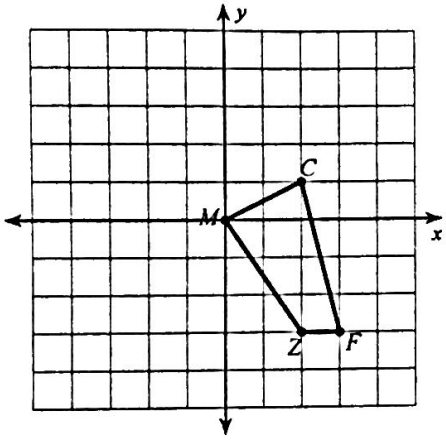
Foundations of Math 2 Name_____

Unit 1 Review Homework

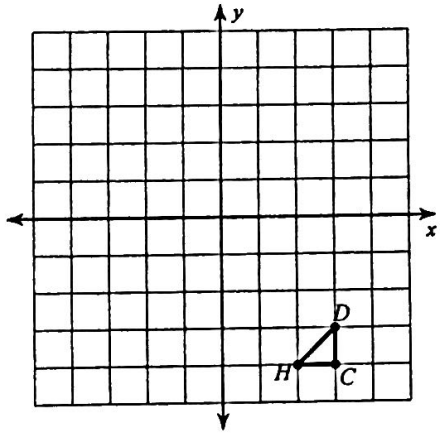
Date_____

Graph the image of the figure using the transformation given.

1) translation: 4 units left and 2 units down

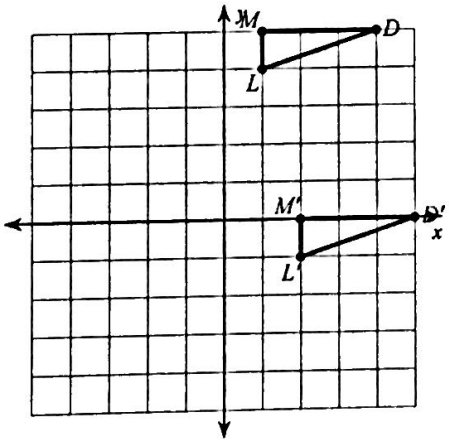


2) translation: $(x, y) \rightarrow (x-2, y+1)$

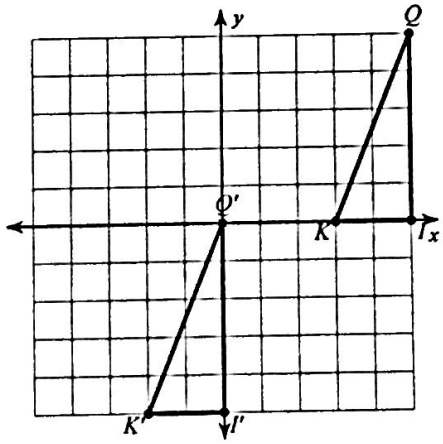


Write a rule to describe each transformation.

3)

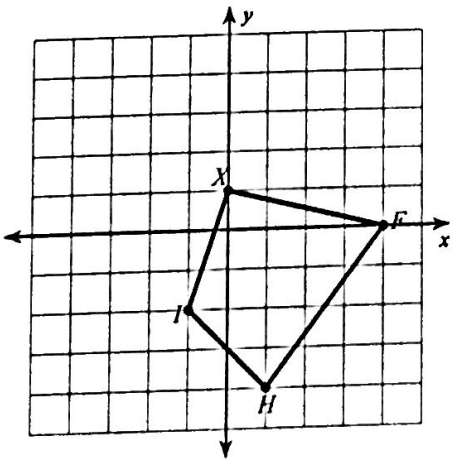


4)

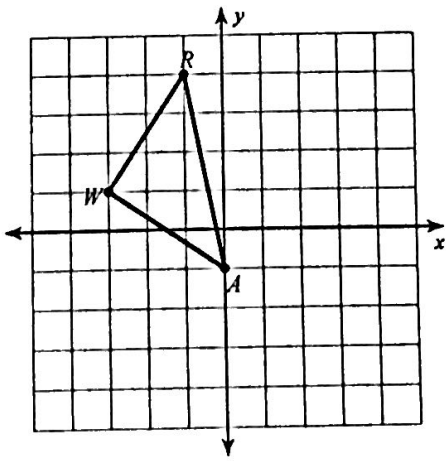


Graph the image of the figure using the transformation given.

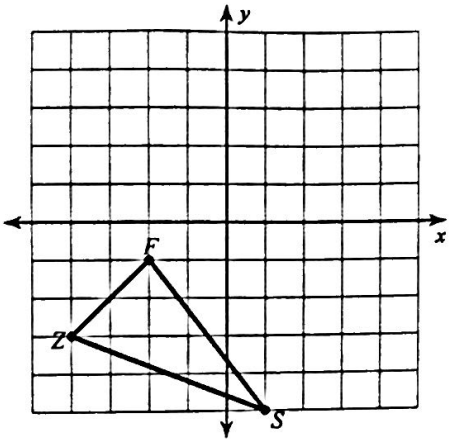
5) reflection across the x-axis



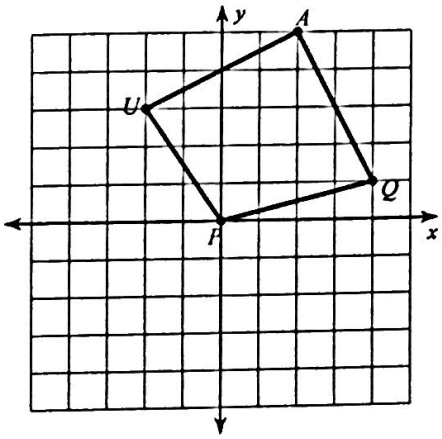
6) reflection across the y-axis



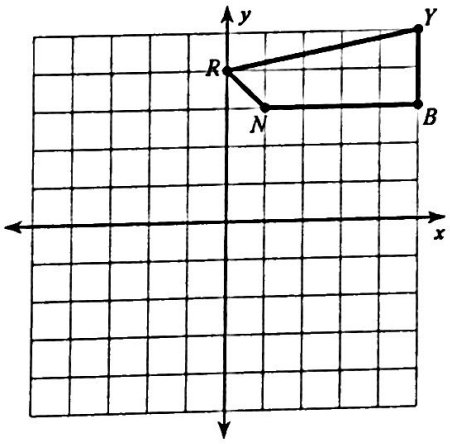
7) reflection across $y = x$



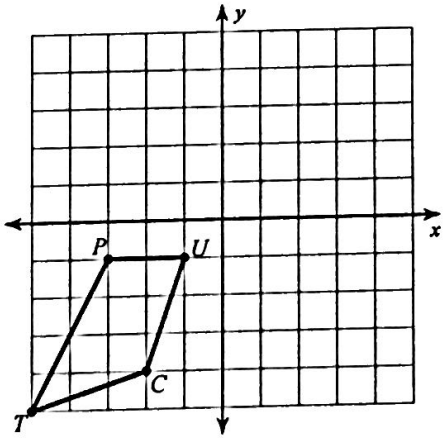
8) reflection across $y = 1$



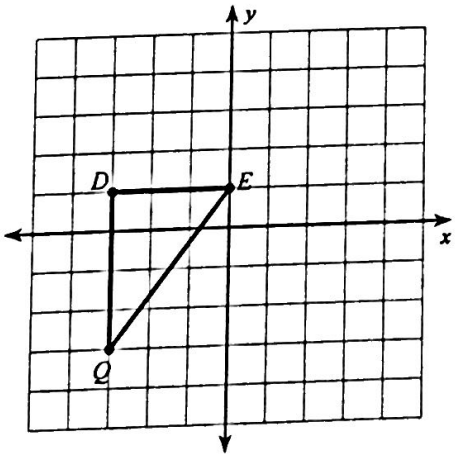
9) reflection across $x = 2$



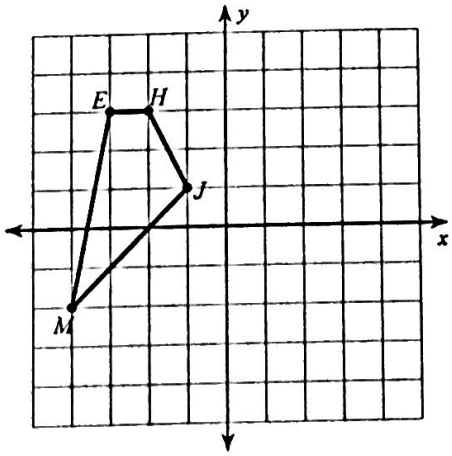
10) reflection across $y = -x$



11) rotation 180° about the origin



12) rotation 90° counterclockwise about the origin



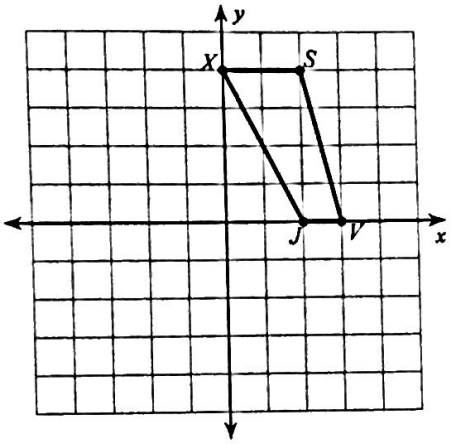
Foundations of Math 2 Name_____

Unit 1 Exam Review

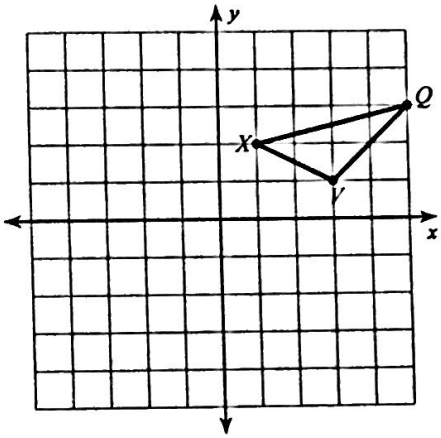
Date_____ Period____

Graph the image of the figure using the transformation given.

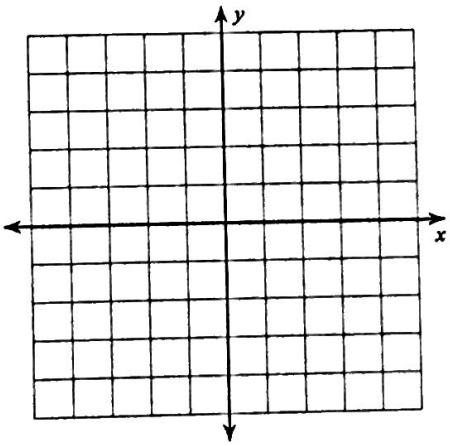
13) rotation 270° counterclockwise about the origin



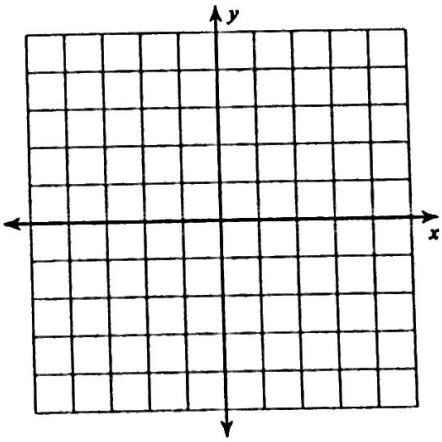
14) rotation 270° clockwise about the origin



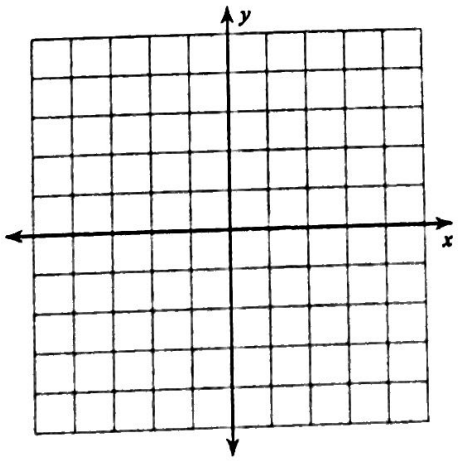
15) dilation of 0.5
$S(0, -4)$, $W(4, -1)$, $M(4, -4)$



16) dilation of 2
$Y(-1, -2)$, $M(-1, 2)$, $U(1, 1)$, $S(2, 1)$



17) dilation of 2.5
$K(-1, 0)$, $Y(0, 2)$, $D(1, 2)$, $H(1, -2)$



18) dilation of 0.5
$L(0, -2)$, $D(-3, 2)$, $V(0, 2)$, $J(4, 0)$