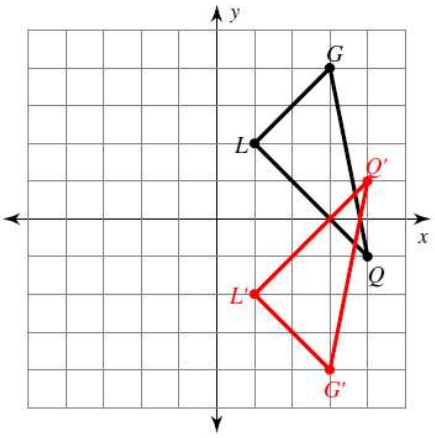
Kuta Software - Infinite Pre-Algebra Name_____

Reflections of Shapes

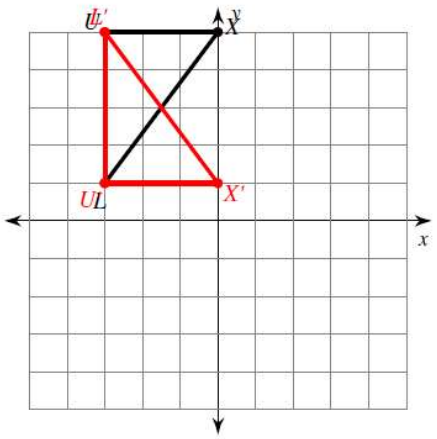
Date_____ Period____

Graph the image of the figure using the transformation given.

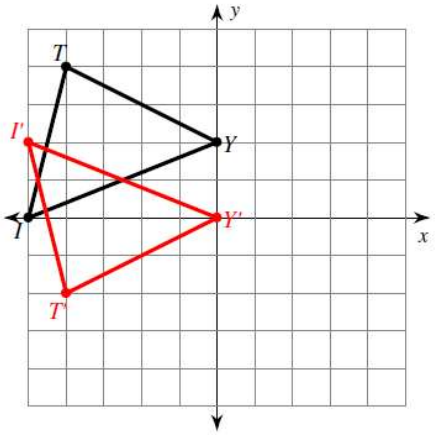
1) reflection across the x-axis



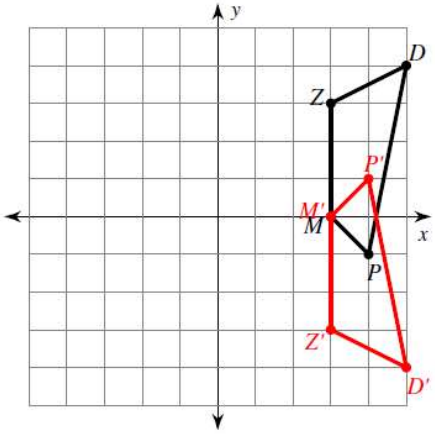
2) reflection across $y = 3$



3) reflection across $y = 1$

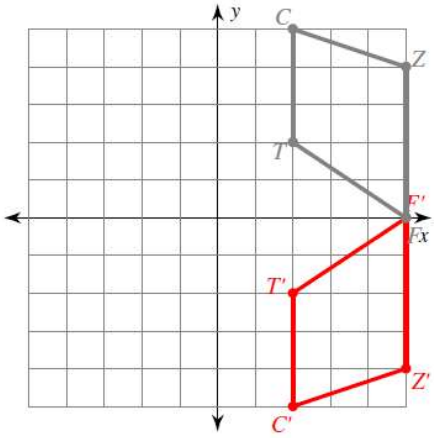


4) reflection across the x-axis



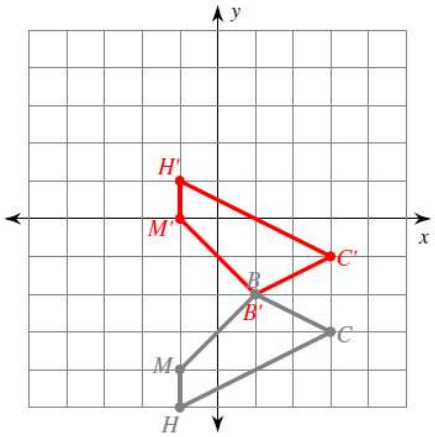
5) reflection across the x-axis

$T(2, 2)$, $C(2, 5)$, $Z(5, 4)$, $F(5, 0)$



6) reflection across $y = -2$

$H(-1, -5)$, $M(-1, -4)$, $B(1, -2)$, $C(3, -3)$



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

7) reflection across the x-axis
$K(1, -1)$, $N(4, 0)$, $Q(4, -4)$

$N'(4, 0)$, $Q'(4, 4)$, $K'(1, 1)$

8) reflection across $y = -1$
$R(-3, -5)$, $N(-4, 0)$, $V(-2, -1)$, $E(0, -4)$

$N'(-4, -2)$, $V'(-2, -1)$, $E'(0, 2)$, $R'(-3, 3)$

9) reflection across $x = 3$
$F(2, 2)$, $W(2, 5)$, $K(3, 2)$

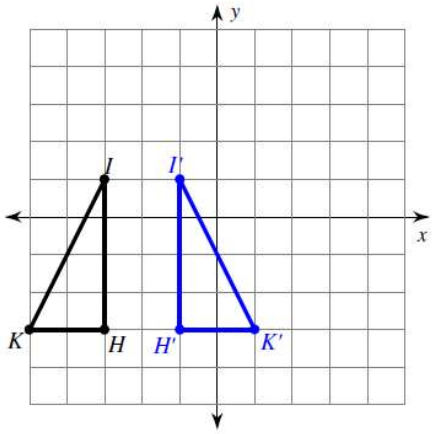
$W'(4, 5)$, $K'(3, 2)$, $F'(4, 2)$

10) reflection across $x = -1$
$V(-3, -1)$, $Z(-3, 2)$, $G(-1, 3)$, $M(1, 1)$

$Z'(1, 2)$, $G'(-1, 3)$, $M'(-3, 1)$, $V'(1, -1)$

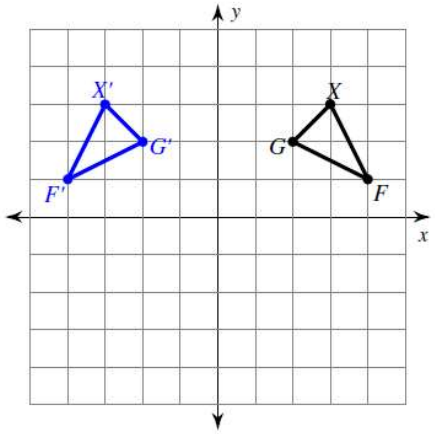
Write a rule to describe each transformation.

11)



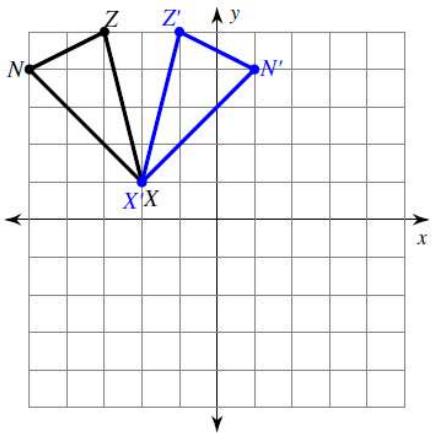
reflection across $x = -2$

12)



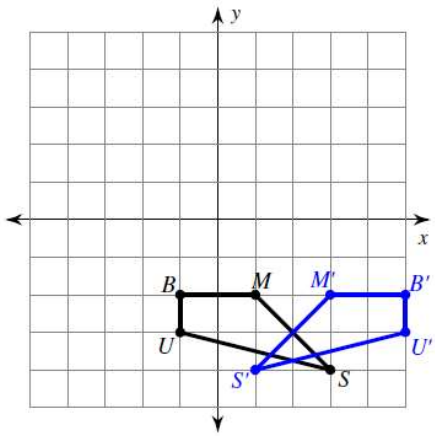
reflection across the y-axis

13)



reflection across $x = -2$

14)



reflection across $x = 2$