

Name: \_\_\_\_\_

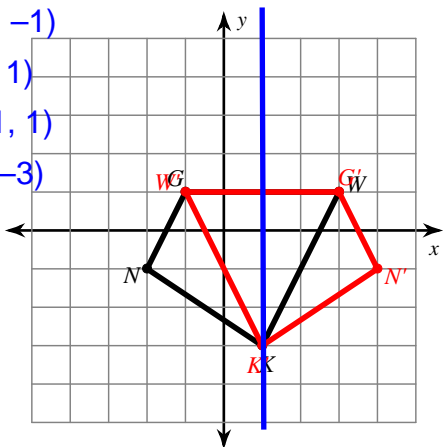
For 1 - 6, graph the image of the figure using the transformation given. Then label the vertices, write down the Pre-Image coordinates and the Image coordinates. Don't forget your "parentheses and commas" . . .

( , ) etc. Be careful on problem #1, #3, #4, and #6.

To help, I put the Reflection lines in BLUE . . .

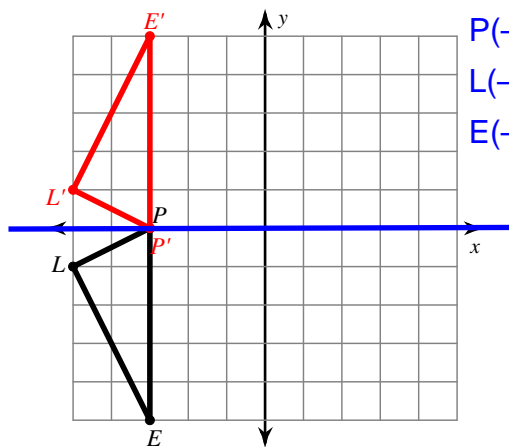
1) reflection across  $x = 1$

$N(-2, -1)$   $N'(4, -1)$   
 $G(-1, 1)$   $G'(3, 1)$   
 $W(2, 1)$   $W'(-1, 1)$   
 $K(0, -3)$   $K'(0, -3)$



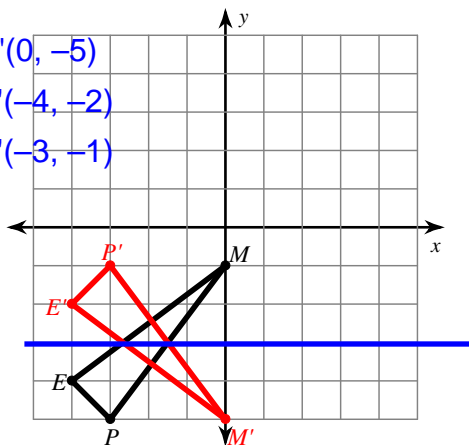
2) reflection across the x-axis

$P(-3, 0)$   $P'(-3, 0)$   
 $L(-5, -1)$   $L'(-5, 1)$   
 $E(-3, -5)$   $E'(-3, 5)$



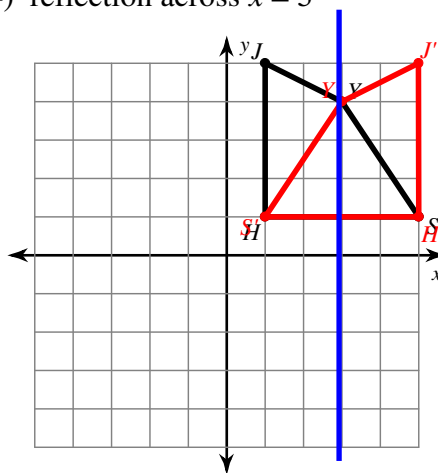
3) reflection across  $y = -3$

$M(0, -1)$   $M'(0, -5)$   
 $E(-4, -4)$   $E'(-4, -2)$   
 $P(-3, -5)$   $P'(-3, -1)$



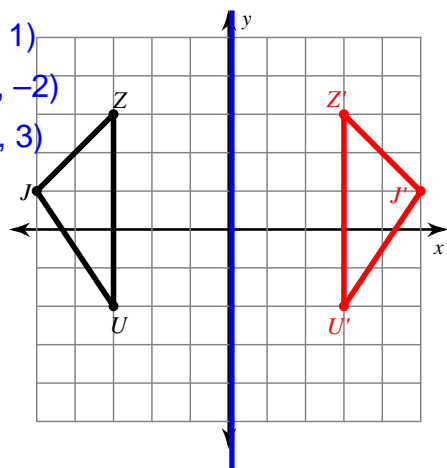
4) reflection across  $x = 3$

$H(1, 1)$   $H'(5, 1)$   
 $J(1, 5)$   $J'(5, 5)$   
 $Y(3, 4)$   $Y'(3, 4)$   
 $S(5, 1)$   $S'(1, 1)$



5) reflection across the y-axis

$J(-5, 1)$   $J'(5, 1)$   
 $U(-3, -2)$   $U'(3, -2)$   
 $Z(-3, 3)$   $Z'(3, 3)$



6) reflection across  $y = -1$

$W(-1, 0)$   $W'(-1, -2)$   
 $I(0, -4)$   $I'(0, 2)$   
 $G(-3, -1)$   $G'(-3, -1)$

