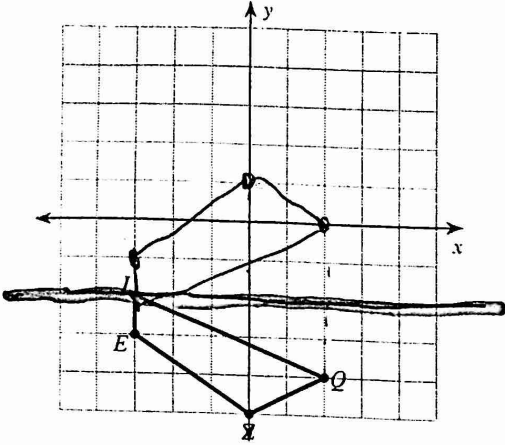


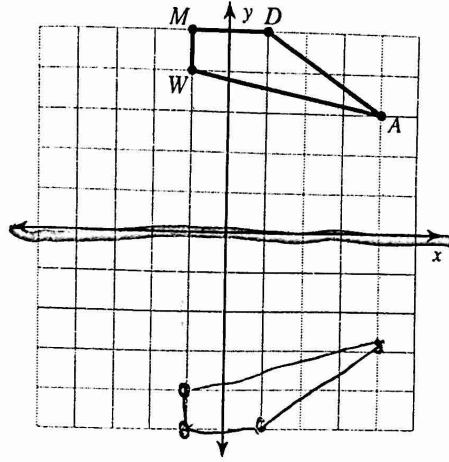
Reflections

Graph the image of the figure using the transformation given.

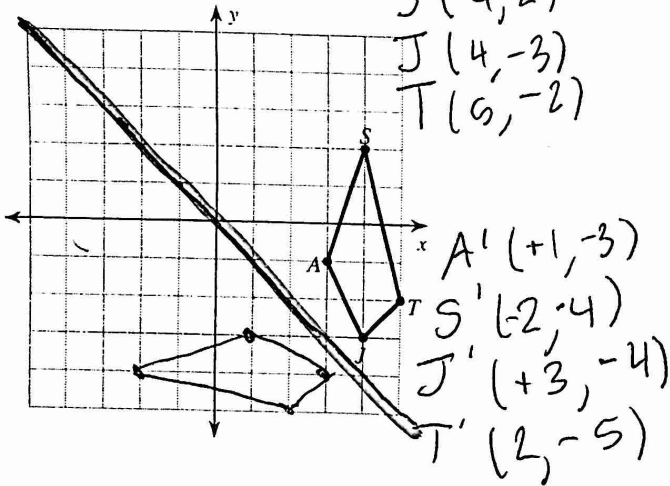
1) reflection across $y = -2$



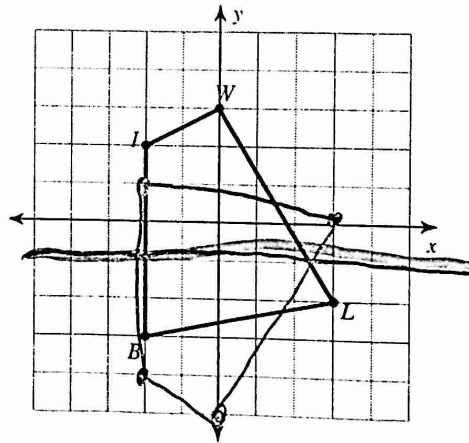
2) reflection across the x-axis



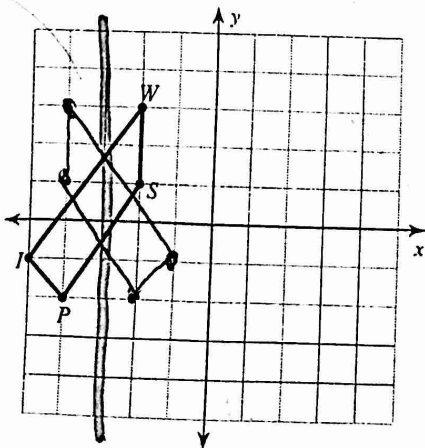
3) reflection across $y = -x$



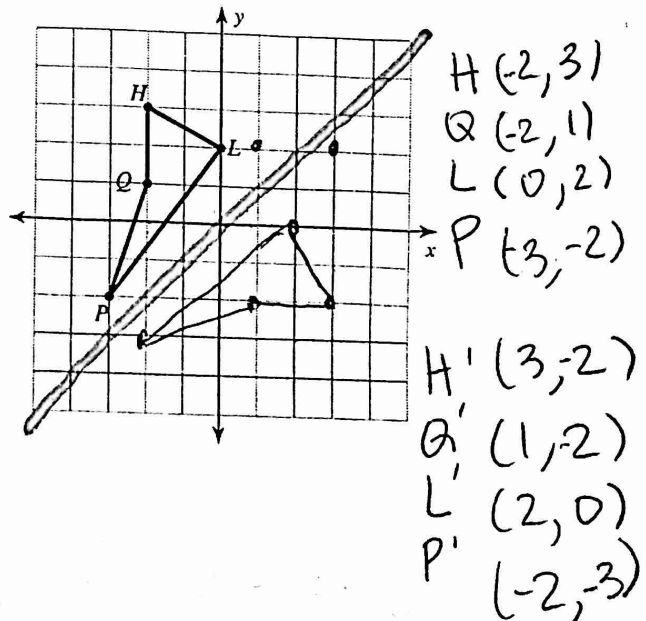
4) reflection across $y = -1$



5) reflection across $x = -3$



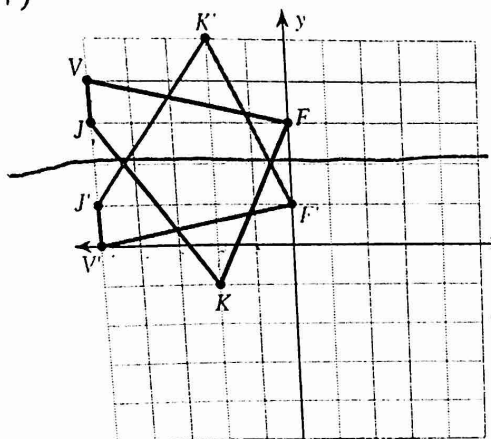
6) reflection across $y = x$



Find the "middle" of the two shapes to find the line of reflection

Write a rule to describe each transformation.

7)

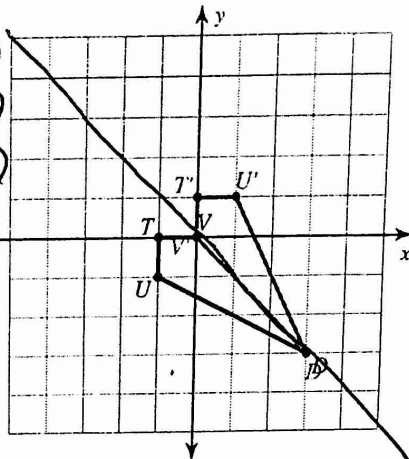


8)
 $V(-5, 4) V'(-5, 0)$
 $J(-5, 3) J'(-5, 1)$
 $K(-2, 1) K'(-2, 5)$
 $F(0, 3) F'(0, -1)$

reflect over $y=2$

~~$(x, y) \rightarrow (x, 4-y)$~~

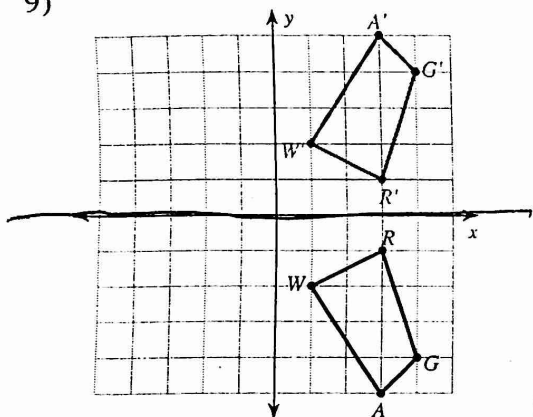
8)



reflect over $y=-x$

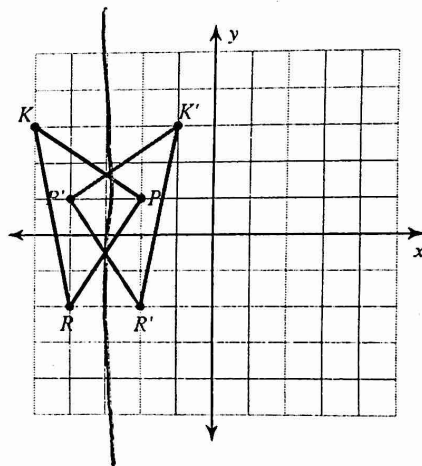
$(x, y) \rightarrow (-y, -x)$

9)



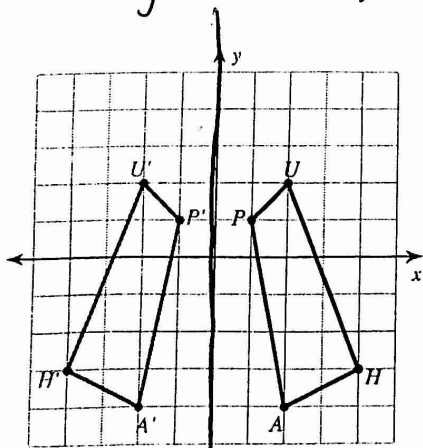
reflect over x axis
 $(x, y) \rightarrow (x, -y)$

10)



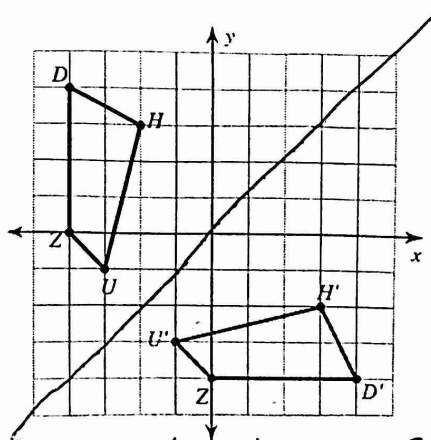
reflect over $x=-3$

11)



reflect over y axis
 $(x, y) \rightarrow (-x, y)$

12)



reflect over $y=x$

$(x, y) \rightarrow (y, x)$