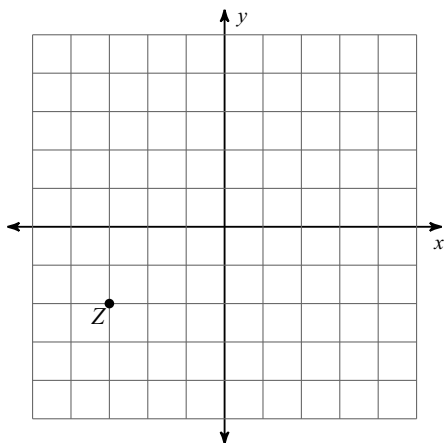


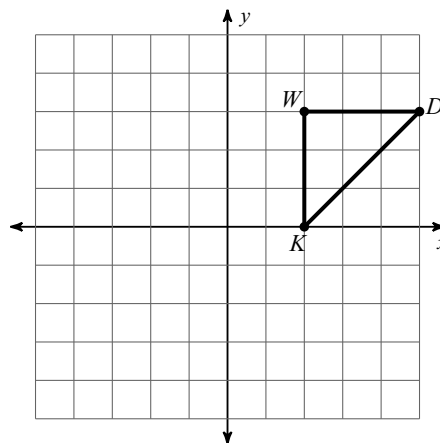
Translations and Reflections

Graph the image of the figure using the transformation given.

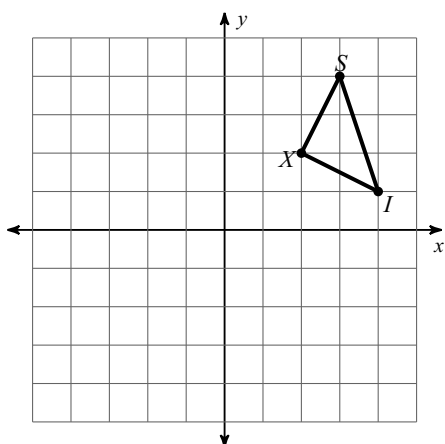
1) reflection across the y-axis



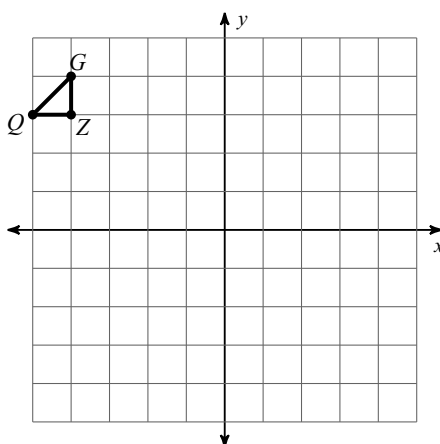
2) reflection across the y-axis



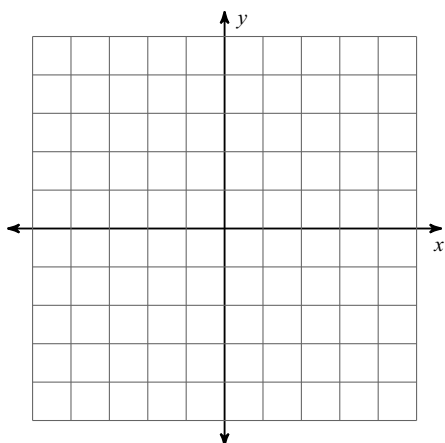
3) reflection across $x = 1$



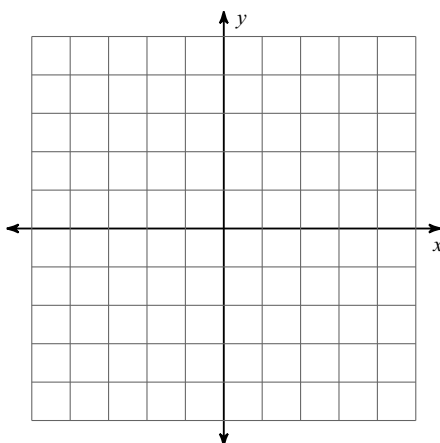
4) reflection across $x = -3$



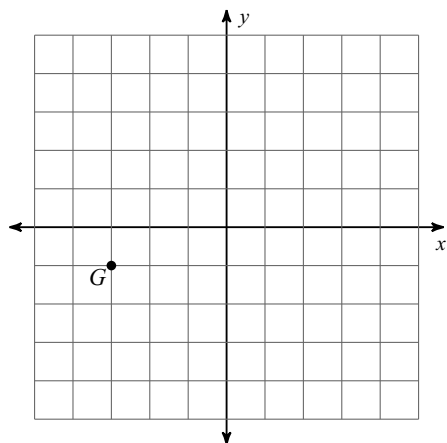
5) reflection across the y-axis
 $B(-5, -4)$, $N(-5, 0)$, $Q(-2, -3)$



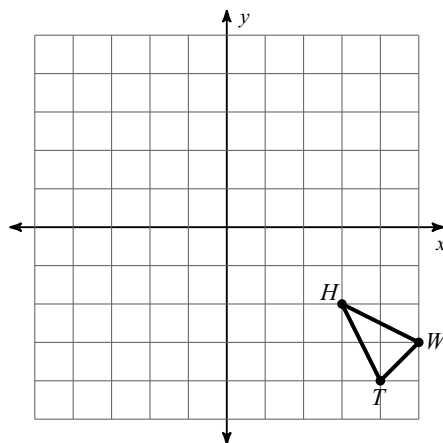
6) reflection across the x-axis
 $F(1, -5)$, $D(0, -2)$, $R(4, -3)$



7) translation: $(2, -2)$

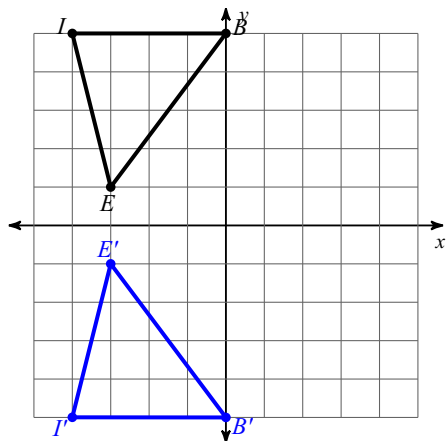


8) translation: $(x, y) \rightarrow (x - 6, y + 5)$

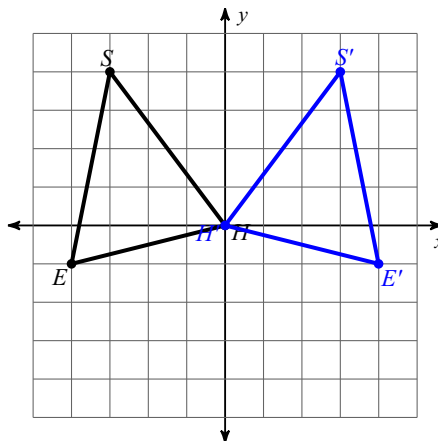


Write a rule to describe each transformation.

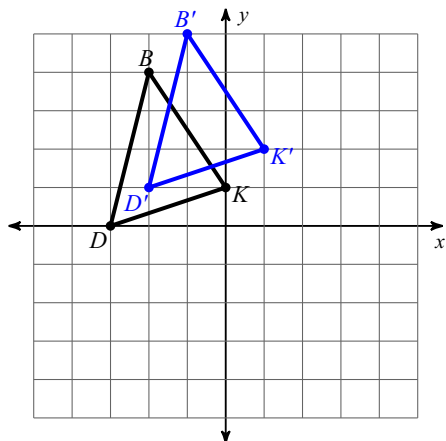
9)



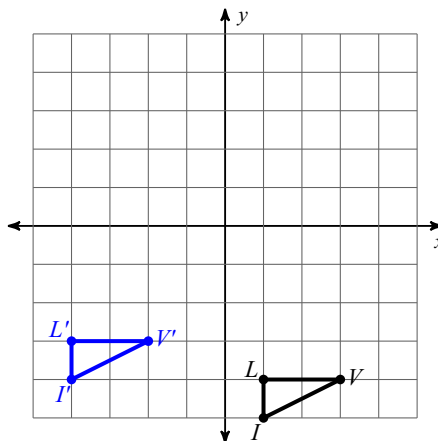
10)



11)

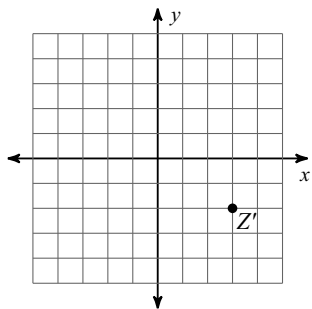


12)

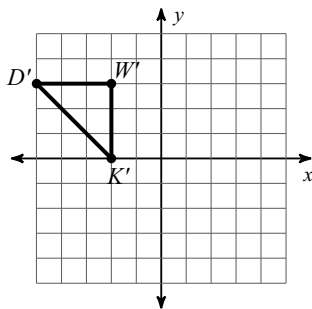


Answers to Translations and Reflections (ID: 1)

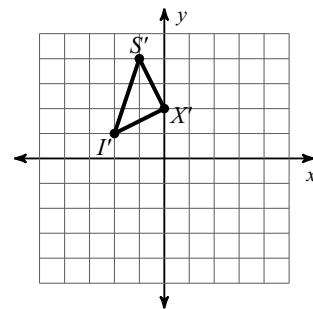
1)



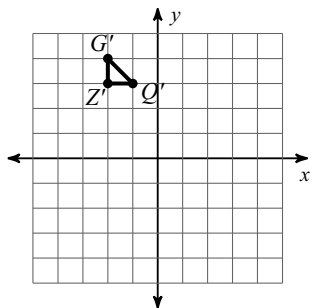
2)



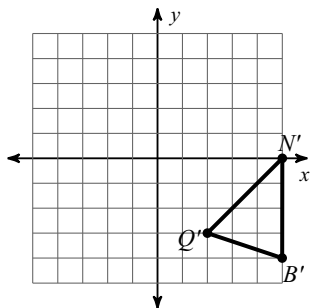
3)



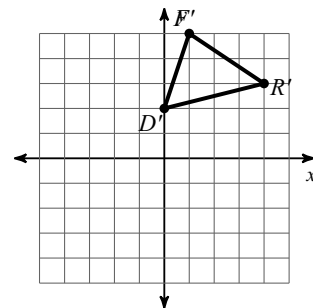
4)



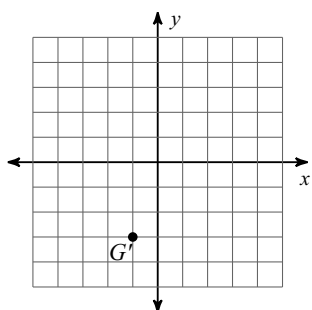
5)



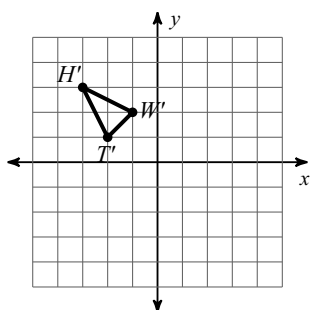
6)



7)



8)



9) reflection across the x-axis

10) reflection across the y-axis

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

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