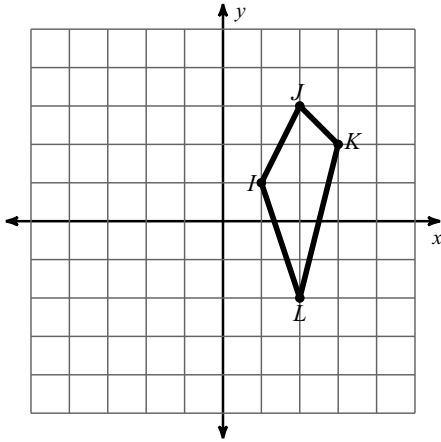


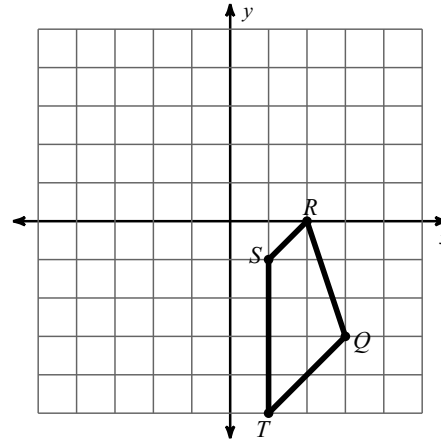
Performing and Describing Transformations

Graph the image of the figure using the transformation given. Use primes to label the vertices.

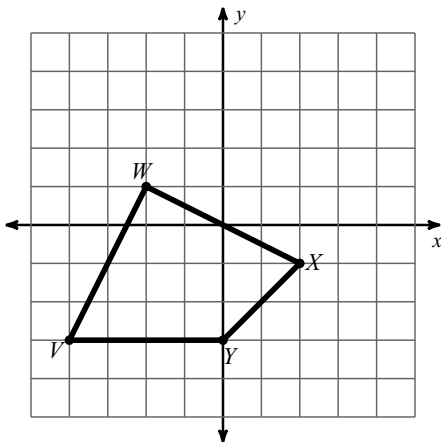
1) translation: $(x, y) \rightarrow (x + 1, y - 3)$



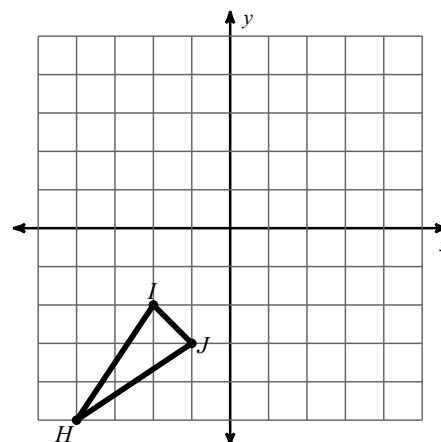
2) translation: $(x, y) \rightarrow (x, y + 5)$



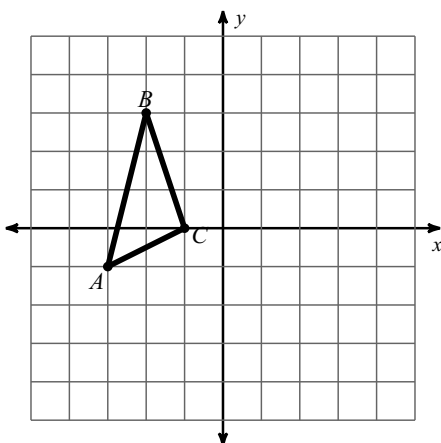
3) reflection across the y-axis



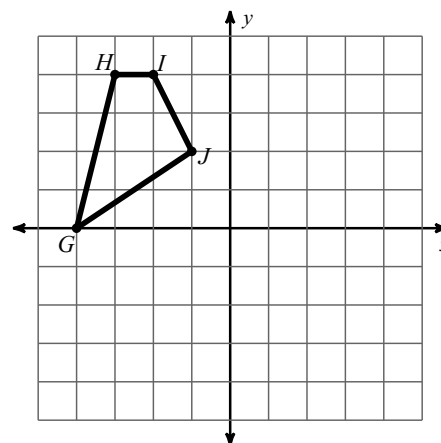
4) reflection across $x = -1$



5) reflection across $y = -1$

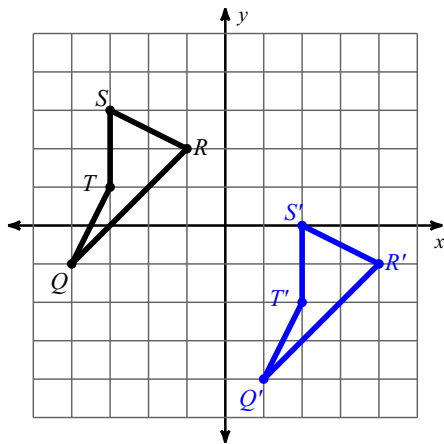


6) translation: $(x, y) \rightarrow (x - 1, y - 5)$

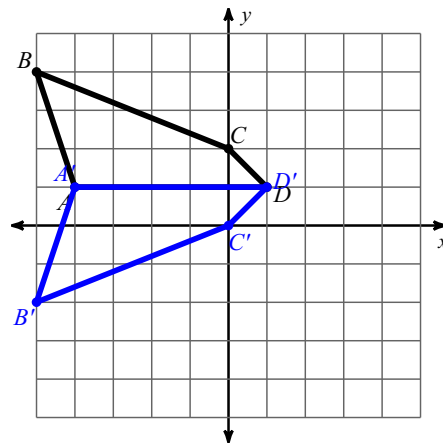


First identify whether each is a translation or reflection. For translations, write a rule in arrow notation to describe the motion. For reflections, write the equation of the line of reflection.

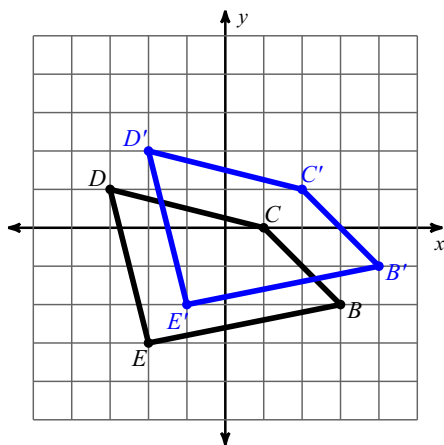
7)



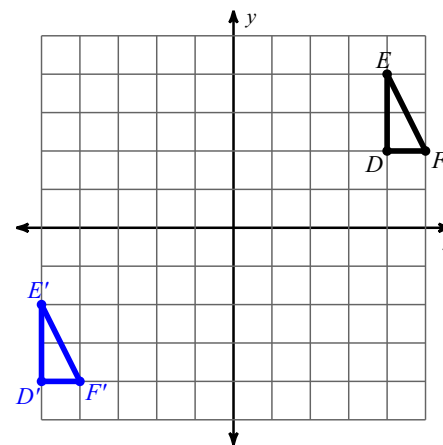
8)



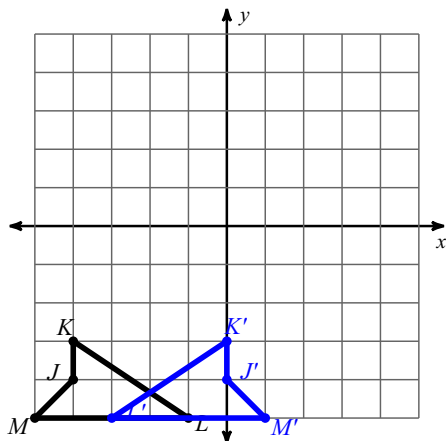
9)



10)



11)



12)

