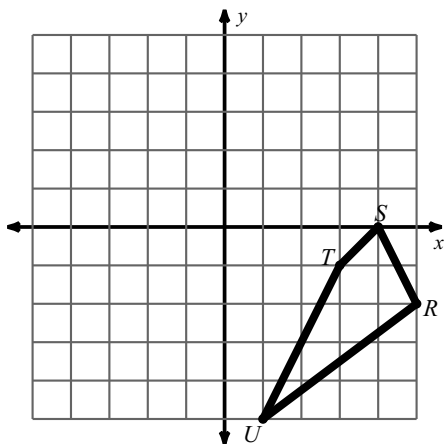


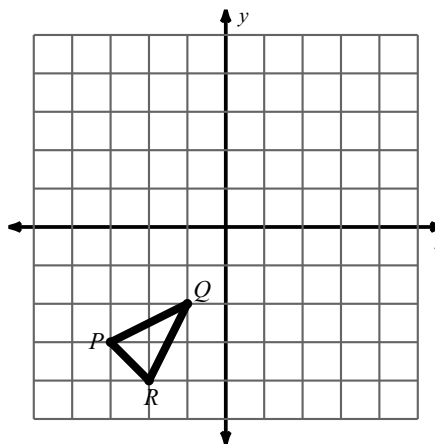
# Even More Transformations Practice

**Graph the image of the figure using the transformation given. Label the image using primes.**

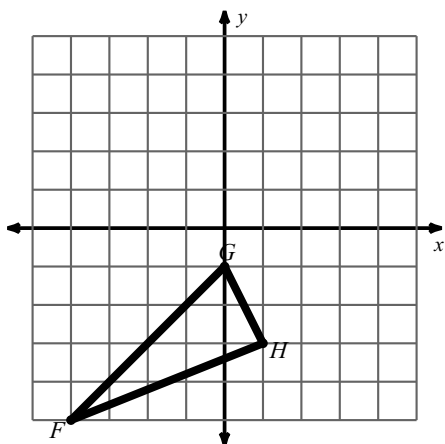
1) translation:  $(x, y) \rightarrow (x - 4, y + 5)$



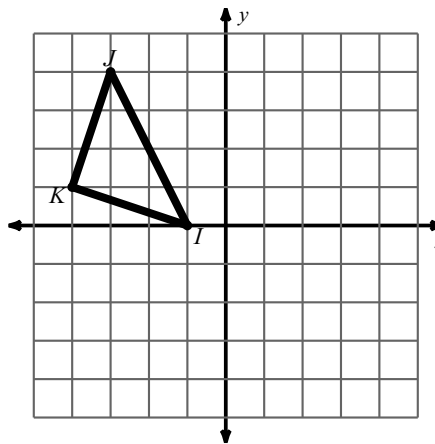
2) translation:  $(x, y) \rightarrow (x - 1, y)$



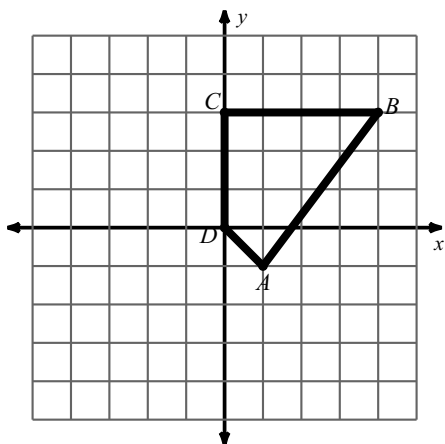
3) rotation  $90^\circ$  counterclockwise about the origin



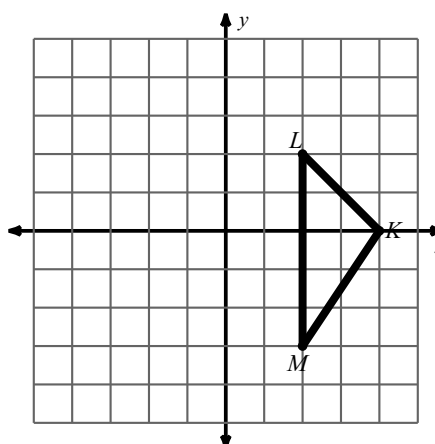
4) rotation  $180^\circ$  about the origin



5) reflection across the x-axis

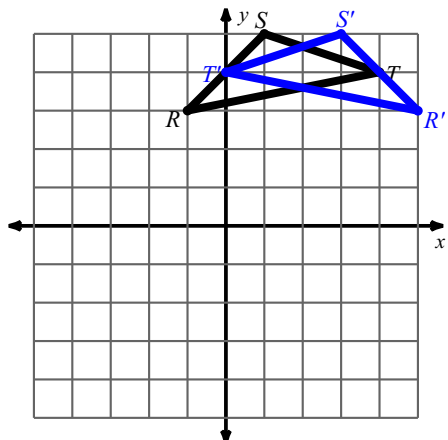


6) reflection across  $y = x$

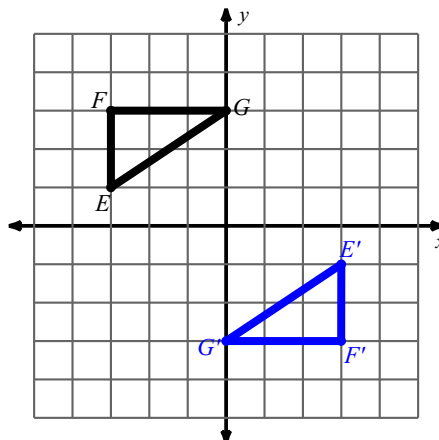


First, identify each as a translation, reflection, or rotation. Then: for translations, write a rule in arrow notation. For reflections, identify the equation or axis of the line of reflection. For rotations, give the degree of CCW rotation about the origin.

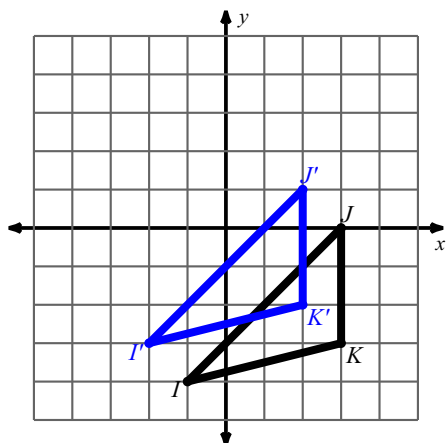
7)



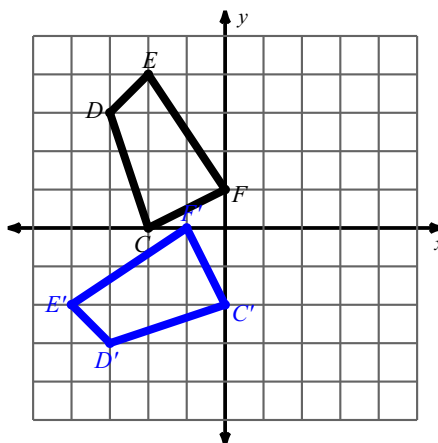
8)



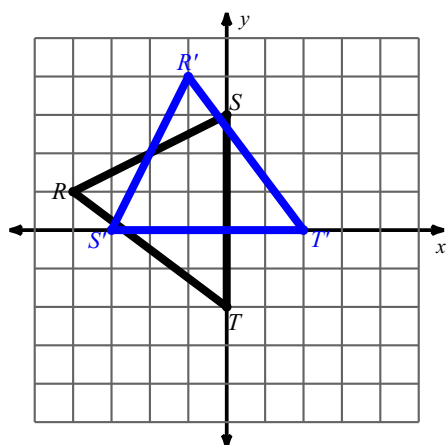
9)



10)



11)



12)

