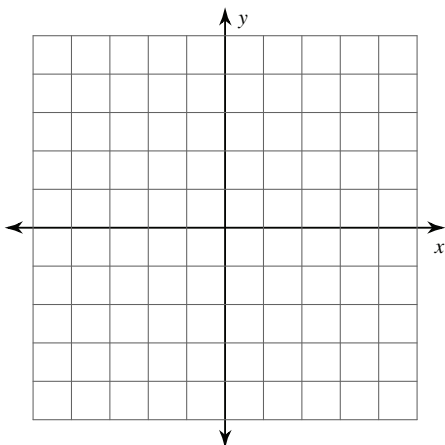


# 14.2-14.4 Review Day 2

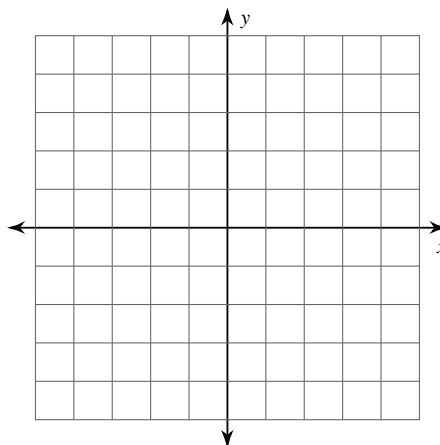
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**Graph the image of the figure using the transformation given.**

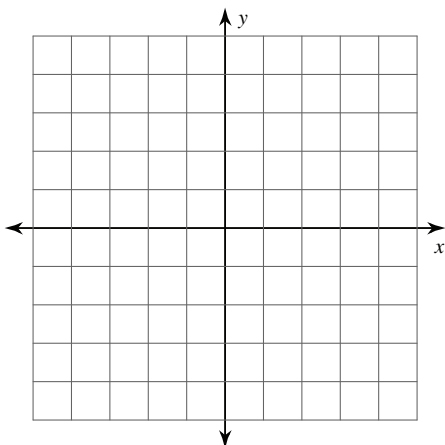
- 1) translation:  $(x, y) \rightarrow (x, y - 3)$   
 $I(5, 4)$



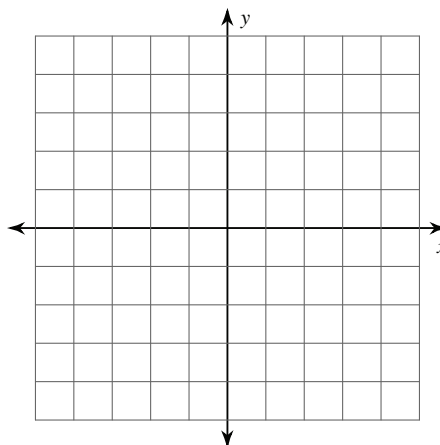
- 2) translation:  $(x, y) \rightarrow (x, y + 5)$   
 $P(-3, -5)$



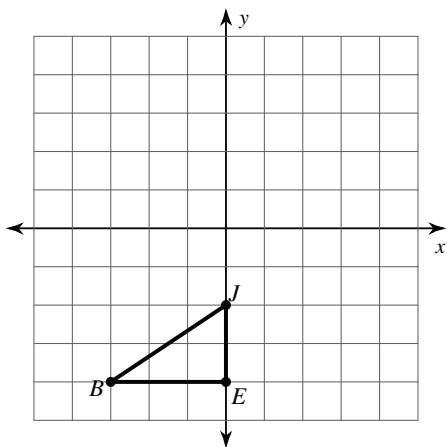
- 3) translation:  $(x, y) \rightarrow (x + 3, y - 6)$   
 $K(-4, 4)$



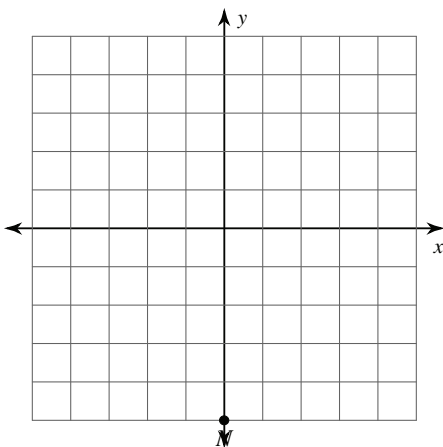
- 4) translation:  $(x, y) \rightarrow (x + 8, y - 1)$   
 $P(-5, 3), L(-3, 4), Z(-4, 1)$



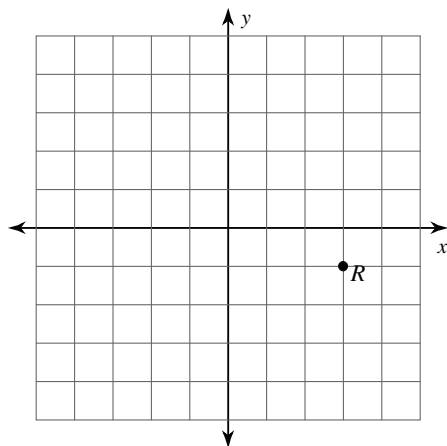
5) translation:  $(x, y) \rightarrow (x + 5, y - 1)$



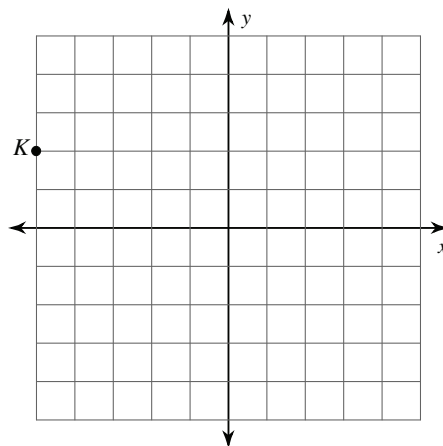
6) translation:  $(x, y) \rightarrow (x - 3, y + 5)$



7) translation:  $(x, y) \rightarrow (x - 8, y + 3)$

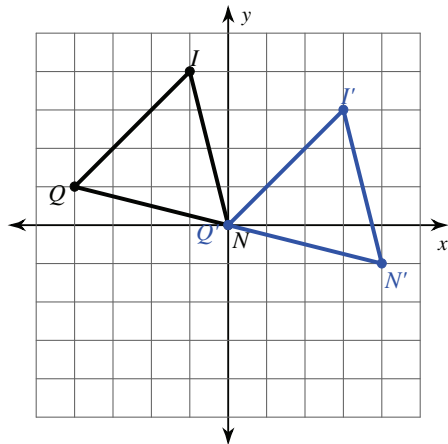


8) translation:  $(x, y) \rightarrow (x, y - 3)$

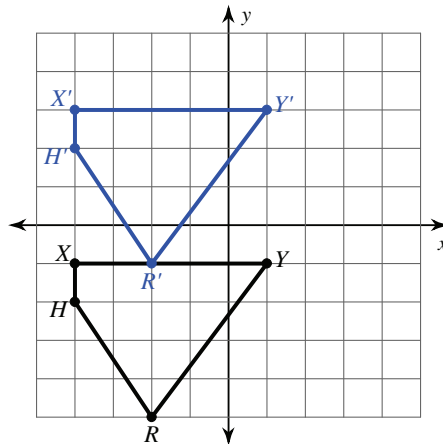


**Write a rule to describe each transformation.**

9)

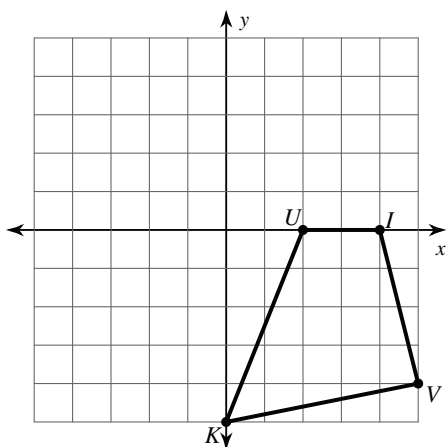


10)

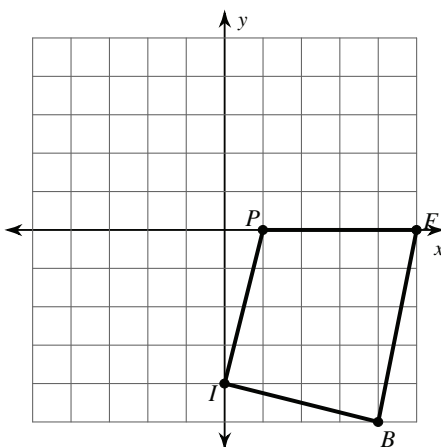


Graph the image of the figure using the transformation given.

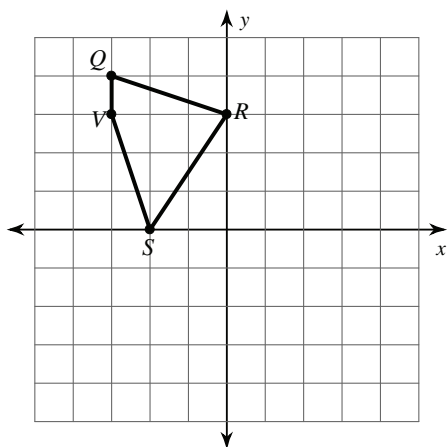
11) reflection across  $y = -1$



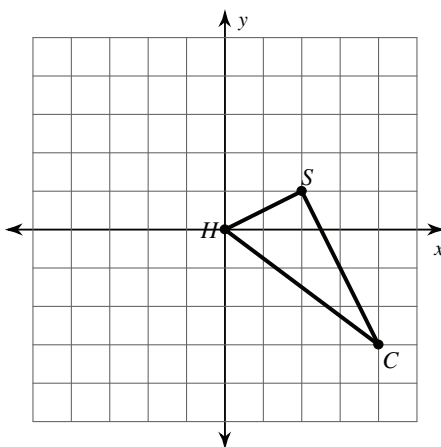
12) reflection across  $y = -x$



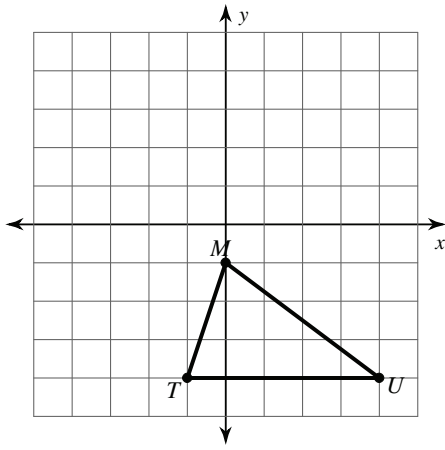
13) reflection across  $y = 2$



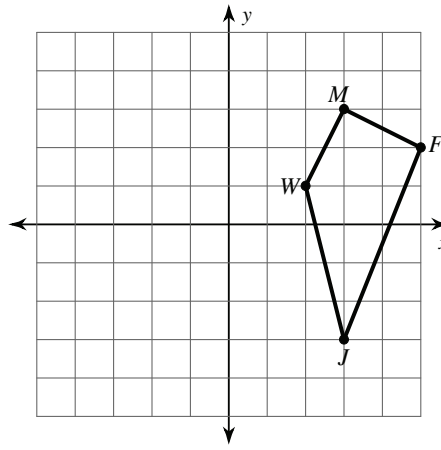
14) reflection across  $x = 1$



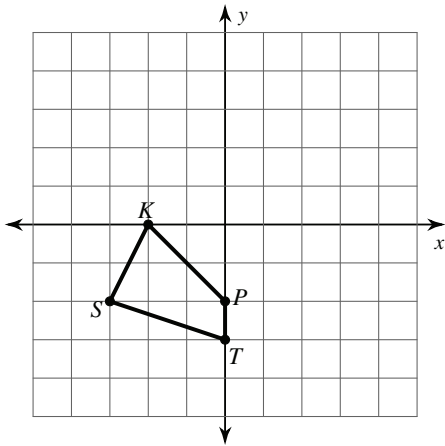
15) reflection across the x-axis



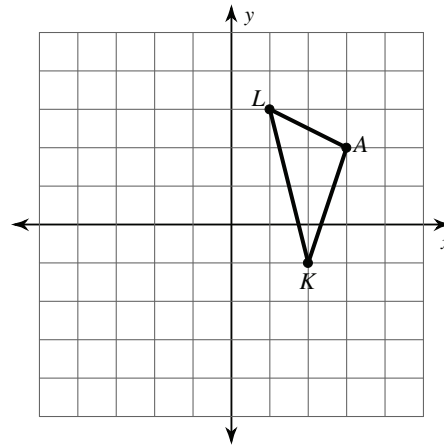
16) reflection across the x-axis



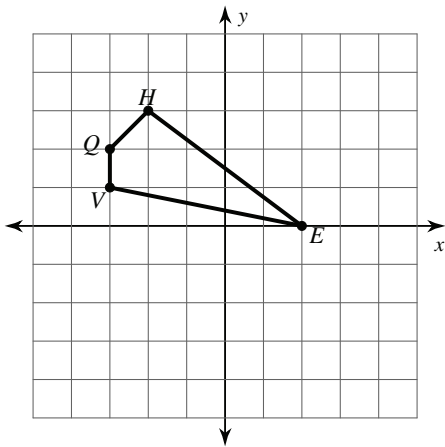
17) rotation 180° about the origin



18) rotation 180° about the origin



19) rotation 180° about the origin



20) rotation 90° counterclockwise about the origin

