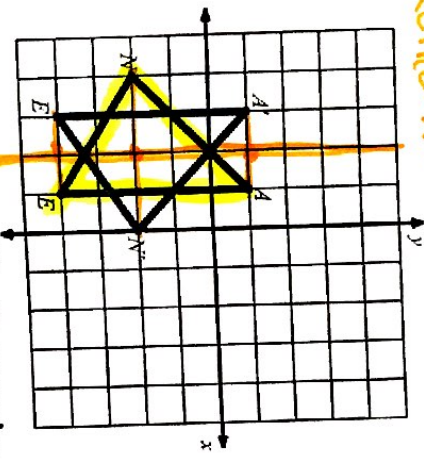


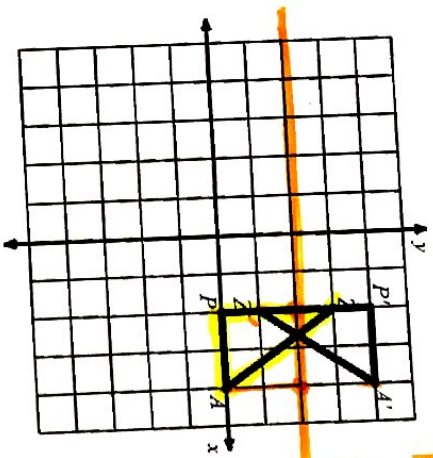
Write a rule to describe each transformation.

1) Refl. $x = -2$



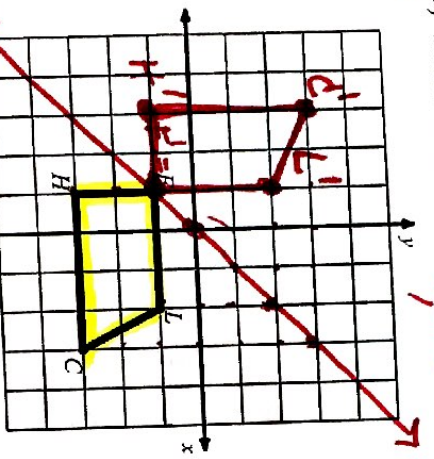
2)

Ref. $y = 2$

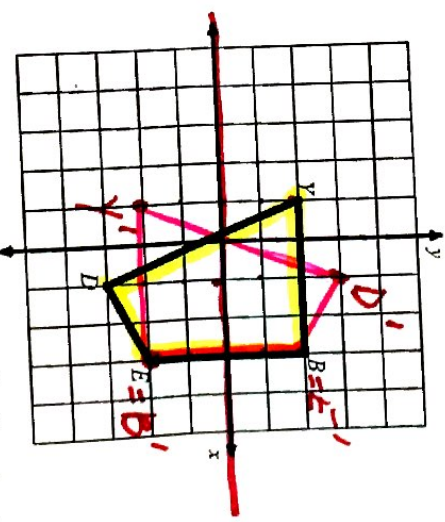


Graph the image of the figure using the transformation given.

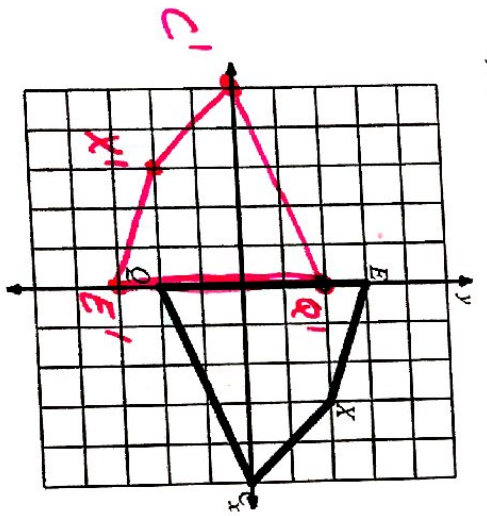
3) reflection across $y = \frac{1}{2}x + 0$



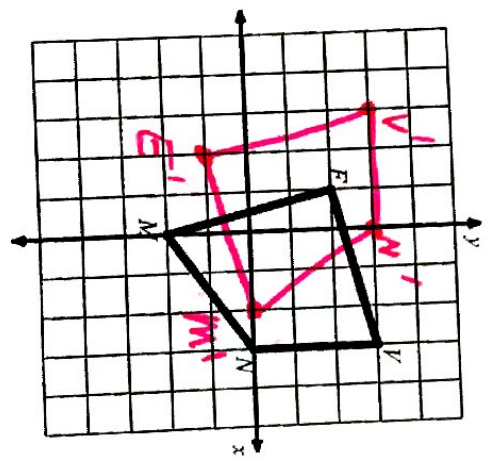
4) reflection across the x-axis



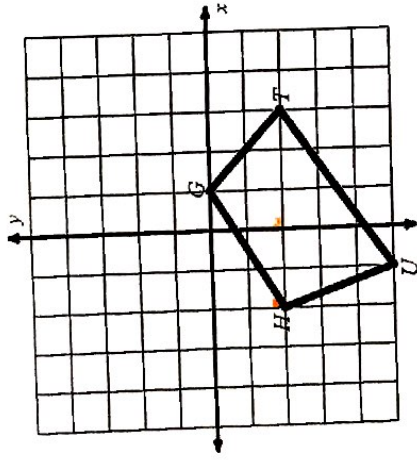
5) rotation 180° about the origin



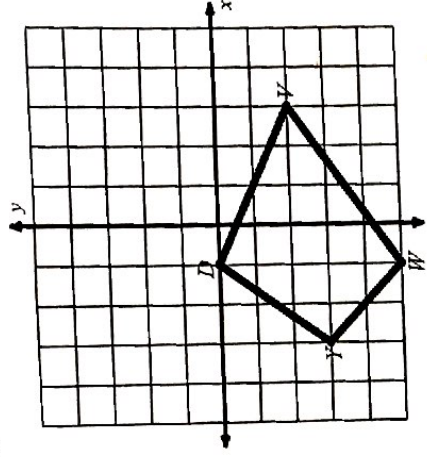
6) rotation 90° counterclockwise about the origin



7) rotation 90° clockwise about the origin

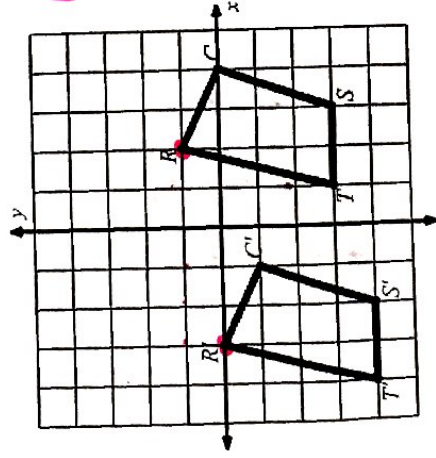


8) rotation 180° about the origin



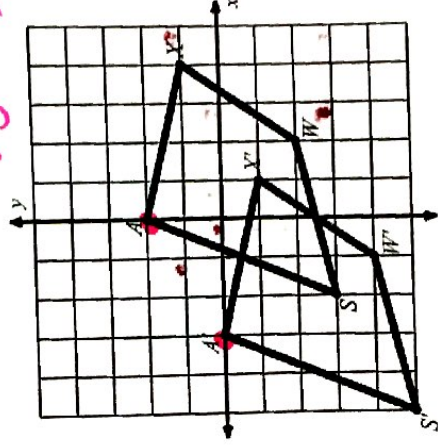
Write a rule to describe each transformation in vector notation

9)



$$(x-5, y-1)$$

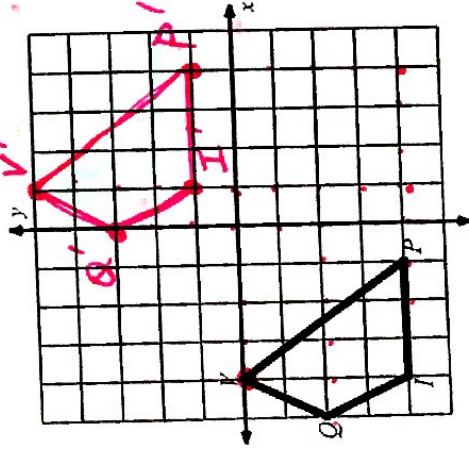
10)



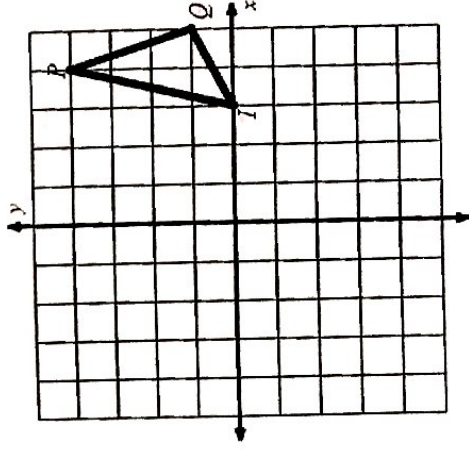
$$(x-3, y-2)$$

Graph the image of the figure using the transformation given.

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



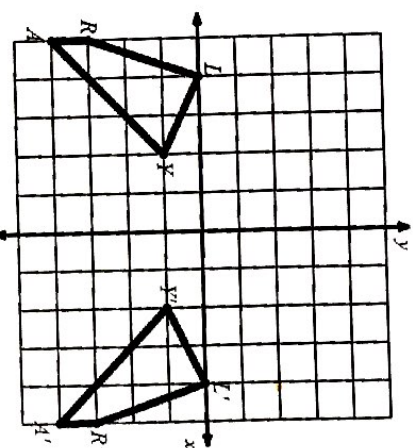
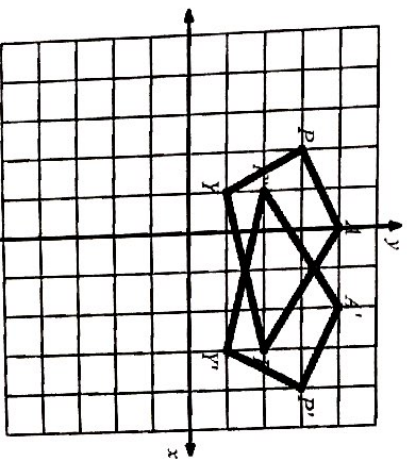
12) translation: $(x, y) \rightarrow (x-5, y-5)$



left down

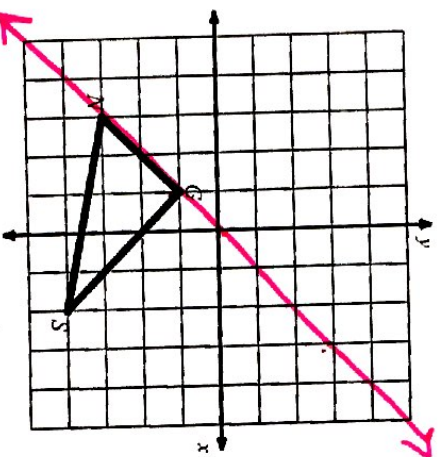
Write a rule to describe each transformation.

1)

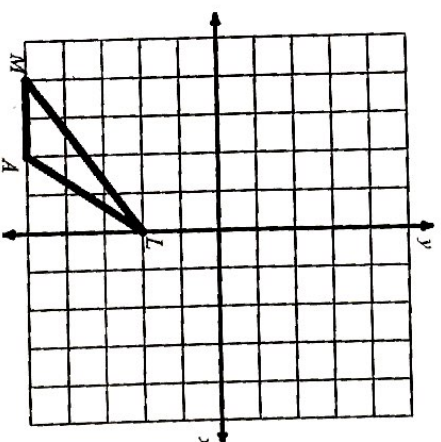


Graph the image of the figure using the transformation given.

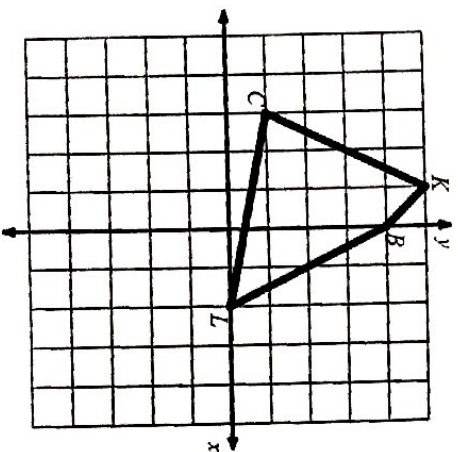
3) reflection across $y = x$



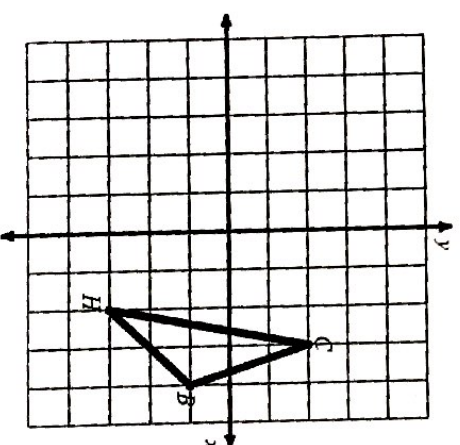
4) reflection across $y = -1$



5) reflection across $y = 2$

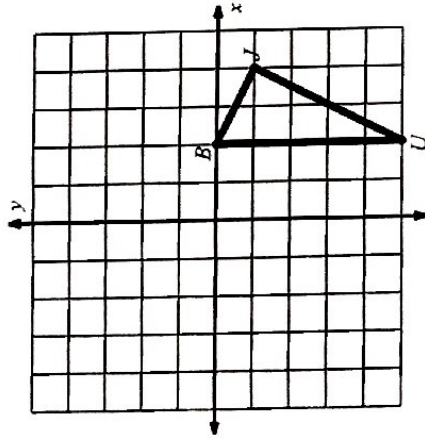


6) reflection across $y = x$

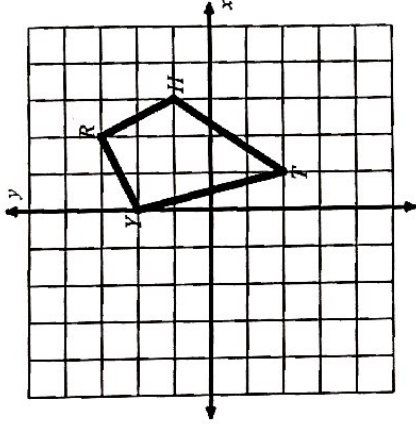


0DBDS
2)

7) rotation 90° counterclockwise about the origin

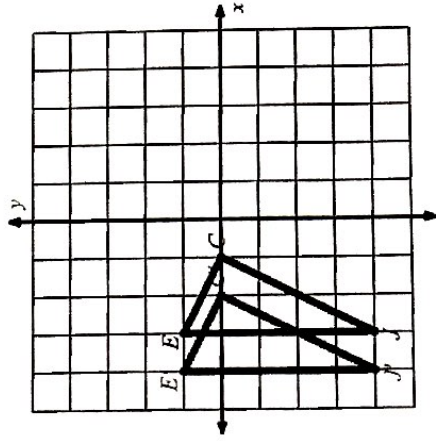


8) rotation 180° about the origin

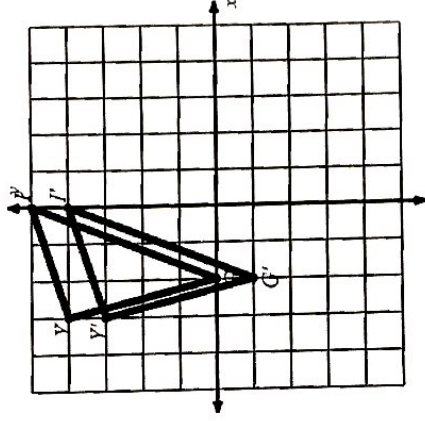


Write a rule to describe each transformation.

9)

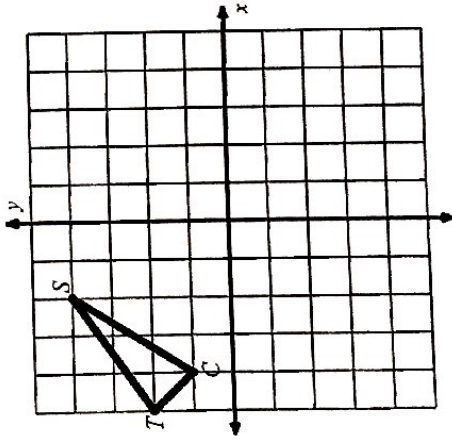


10)



Graph the image of the figure using the transformation given.

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



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

