Geometry   Name_____
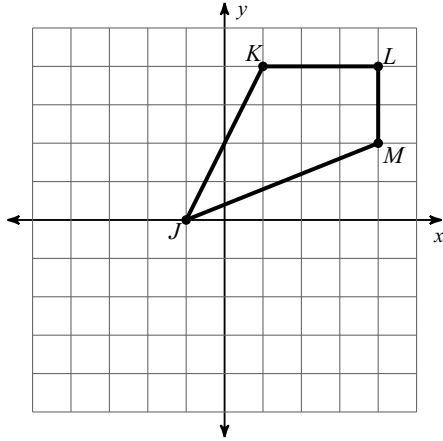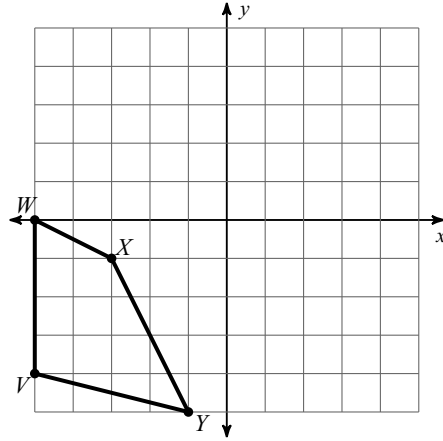
Transformations
Date_____

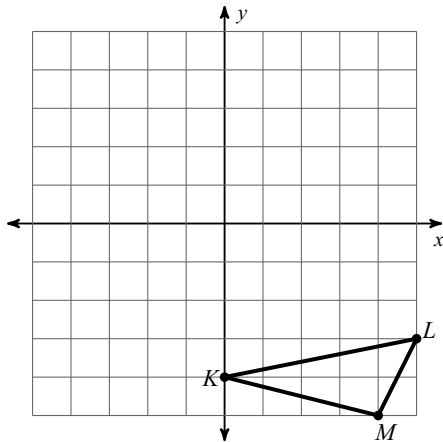**Graph the image of the figure using the transformation given.**

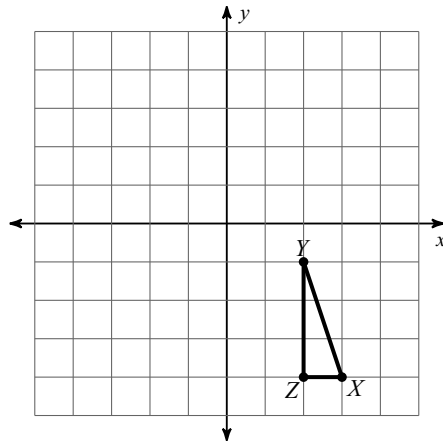1) translation: $(x, y) \rightarrow (x - 3, y - 4)$

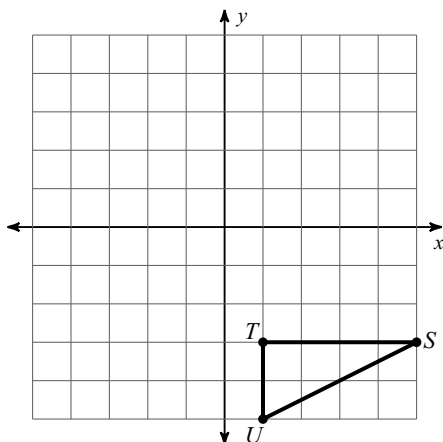2) translation: $(x, y) \rightarrow (x + 5, y + 2)$
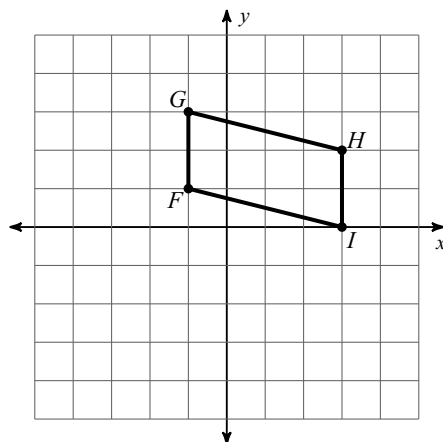

3) rotation 180° about the origin

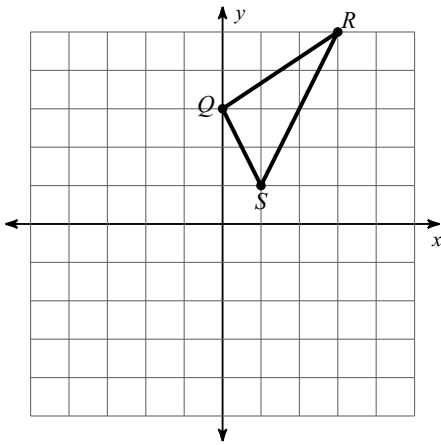4) rotation 90° clockwise about the origin
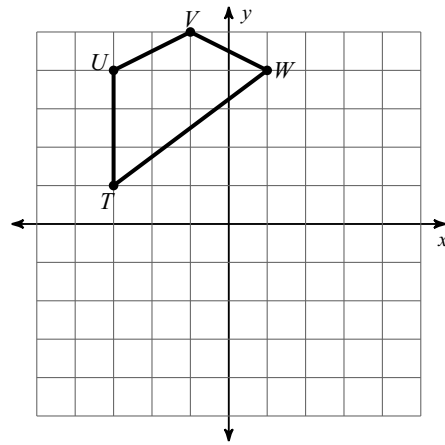

5) reflection across the x-axis
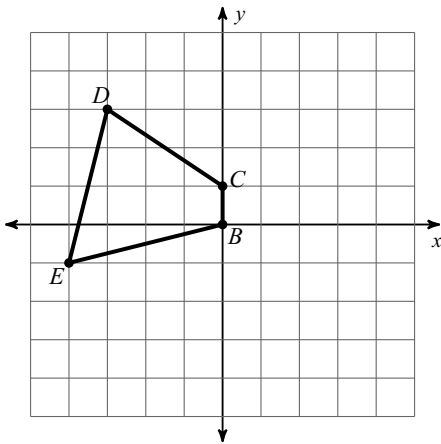

6) reflection across the y-axis

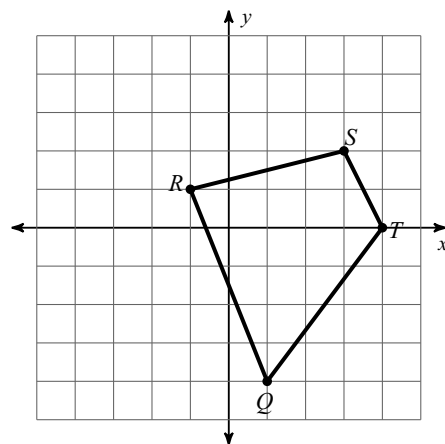7) rotation 90° clockwise about the origin

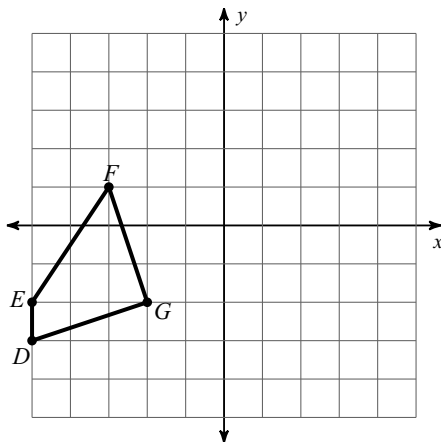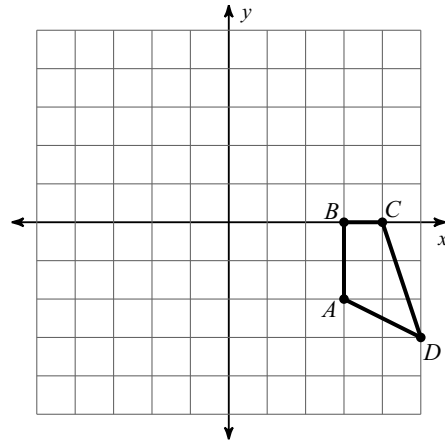8) reflection across the x-axis

9) reflection across the x-axis

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

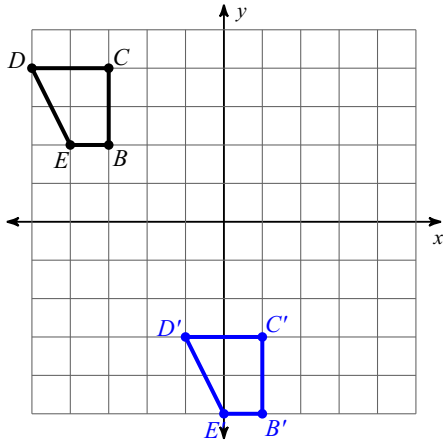11) translation: $(x, y) \rightarrow (x, y + 2)$

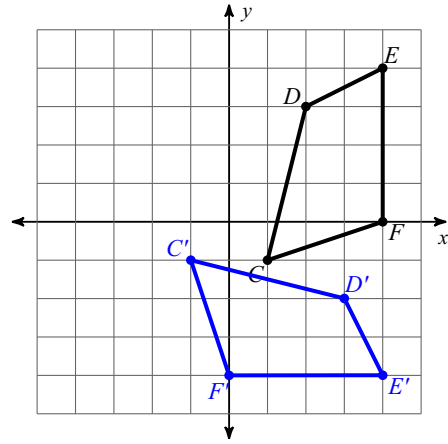12) rotation 90° clockwise about the origin
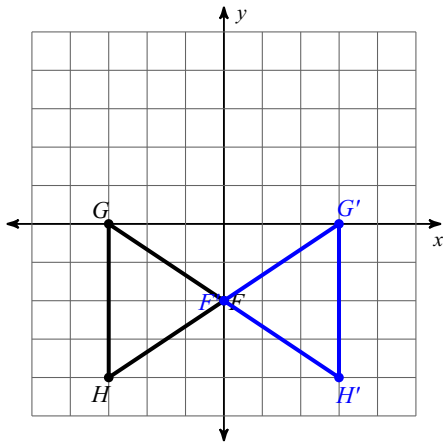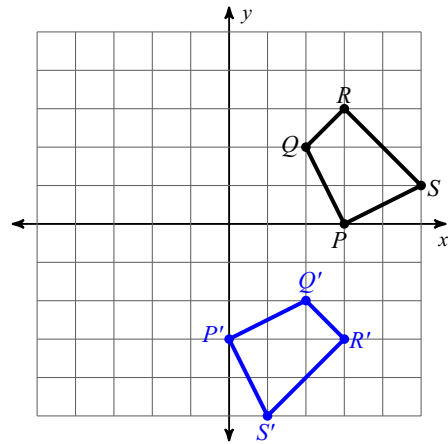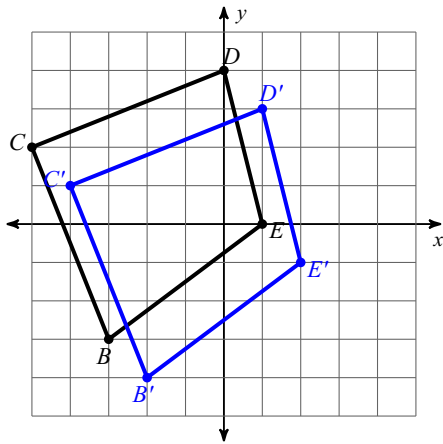

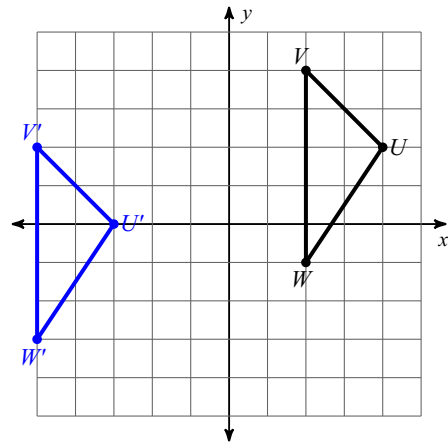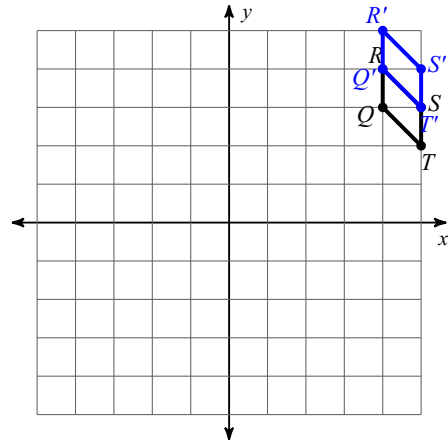-2-

Write a rule to describe each transformation.

13)

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-4-