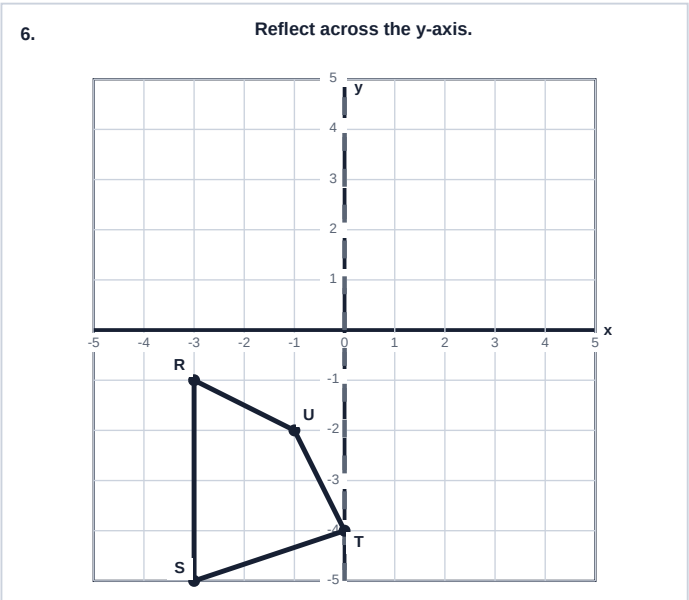
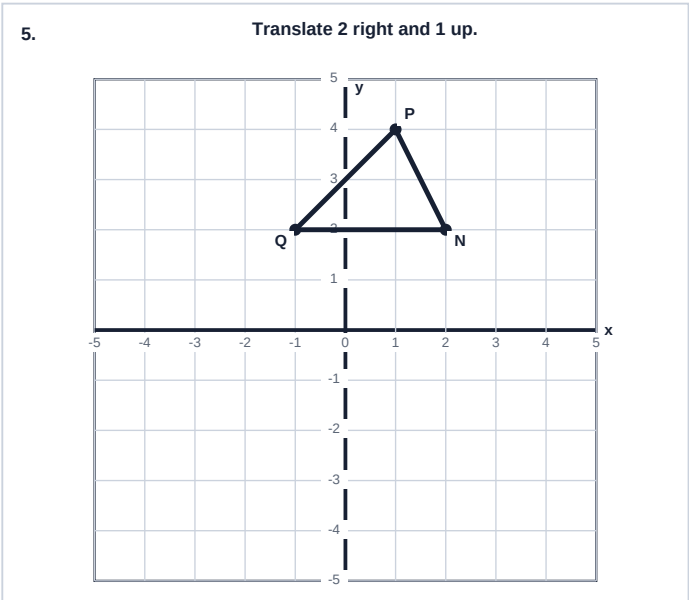
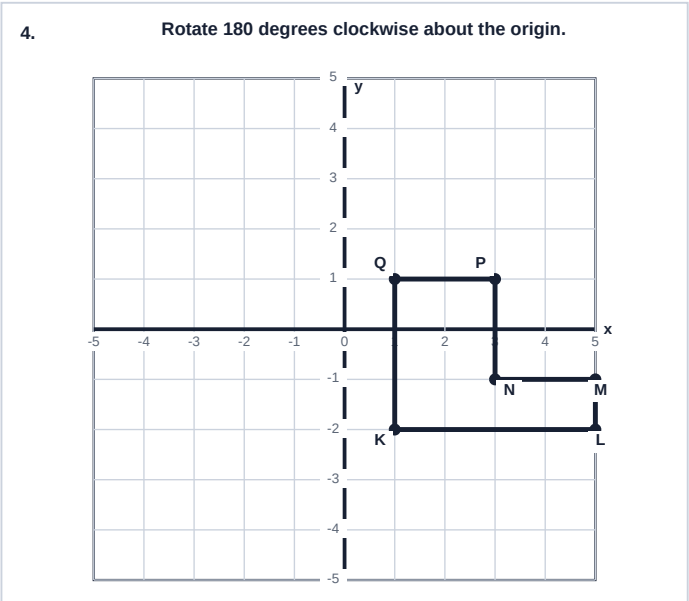
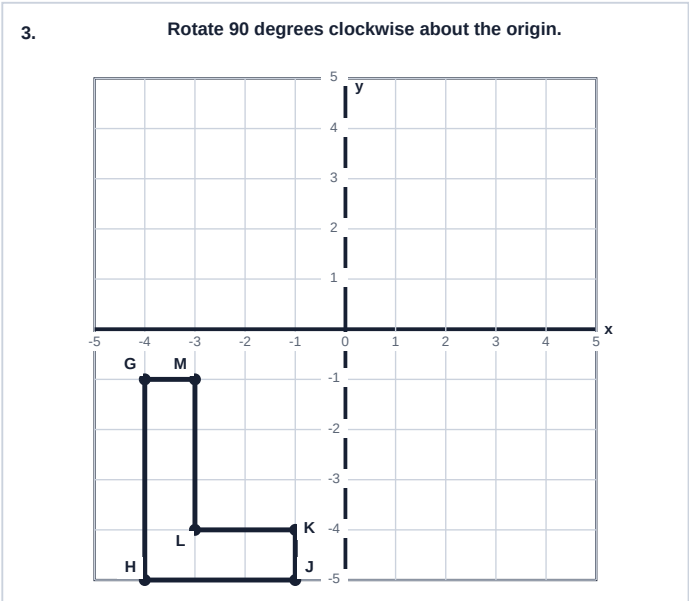
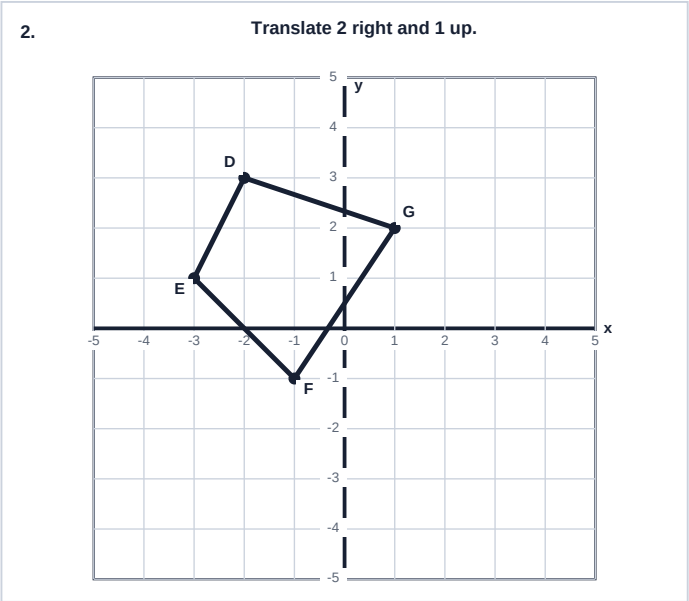
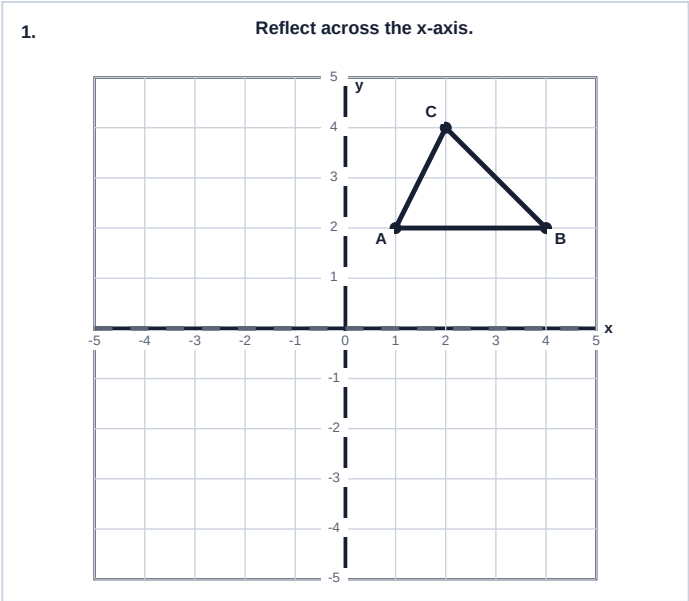


Mixed Transformations

Follow each rule. Draw and label the image of the figure on the same grid.

Draw each image



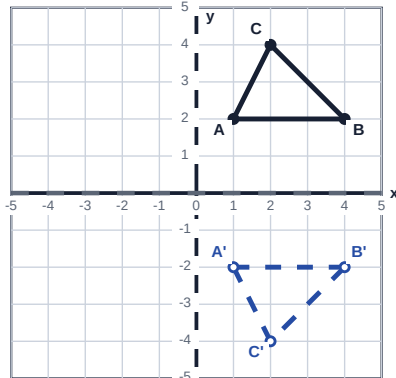
Mixed Transformations

Worked Answer Key

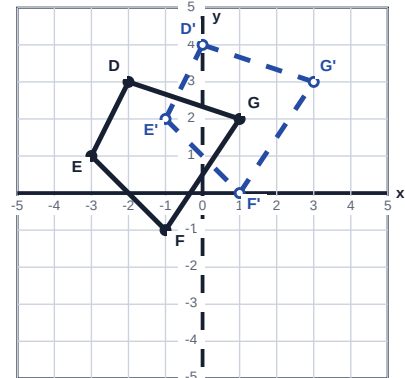
Follow each rule. Draw and label the image of the figure on the same grid.

Solutions

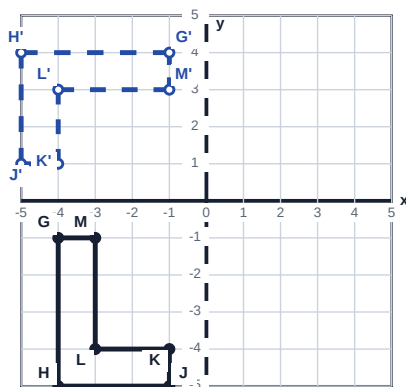
1. Reflect across the x-axis.

Reflect across the x-axis. $A'(1, -2)$, $B'(4, -2)$, $C'(2, -4)$

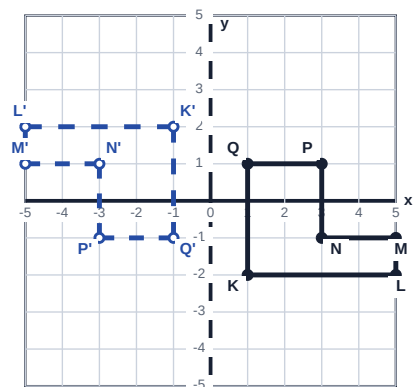
2. Translate 2 right and 1 up.

 $(x, y) \rightarrow (x + 2, y + 1)$ $D'(0, 4)$, $E'(-1, 2)$, $F'(1, 0)$, $G'(3, 3)$

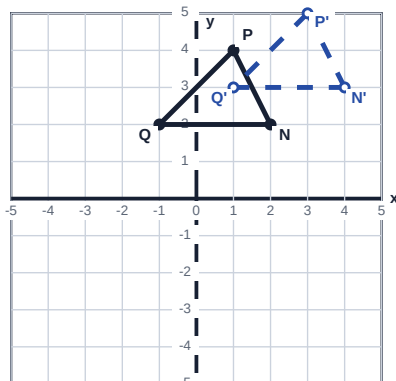
3. Rotate 90 degrees clockwise about the origin.

Rotate 90 degrees clockwise about the origin. $G'(-1, 4)$, $H'(-5, 4)$, $J'(-5, 1)$, $K'(-4, 1)$, $L'(-4, 3)$, $M'(-1, 3)$

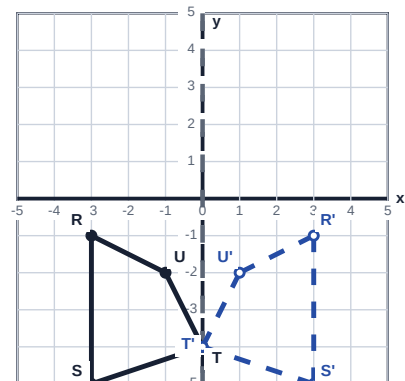
4. Rotate 180 degrees clockwise about the origin.

Rotate 180 degrees clockwise about the origin. $K'(-1, 2)$, $L'(-5, 2)$, $M'(-5, -1)$, $N'(-3, -1)$, $P'(-3, -1)$, $Q'(-1, -1)$

5. Translate 2 right and 1 up.

 $(x, y) \rightarrow (x + 2, y + 1)$ $N'(4, 3)$, $P'(3, 5)$, $Q'(1, 3)$

6. Reflect across the y-axis.

Reflect across the y-axis. $R'(3, -1)$, $S'(3, -5)$, $T'(0, -4)$, $U'(1, -2)$