

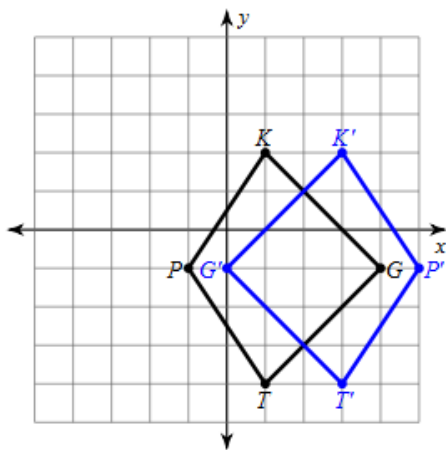
Name _____

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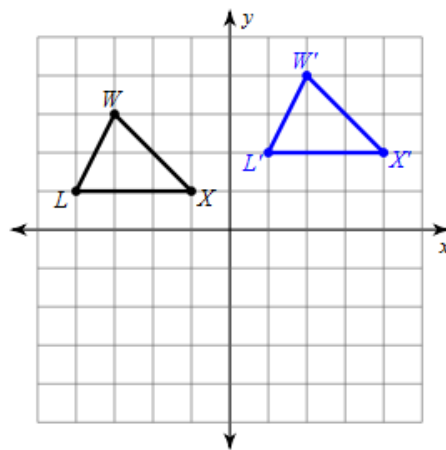
Transformations Practice

Describe each transformation in words. Then write the rule.

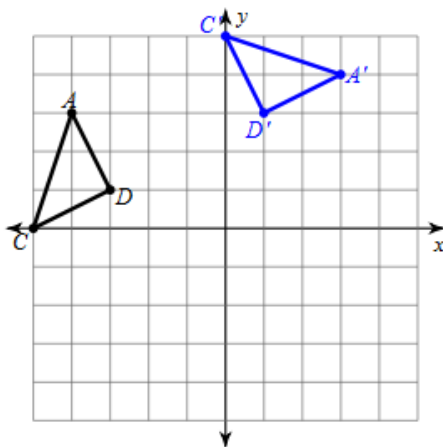
1)



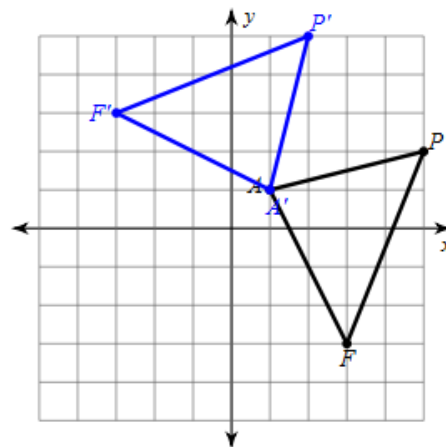
2)



3)



4)



Find the coordinates of the image for each of the following. Then write a rule for the transformation or composition of transformations.

5) Pre-Image: $A(5, -6)$, $B(-1, -2)$, $C(2, 3)$

Rotate 90° clockwise around the origin; then reflect over the x-axis.

6) Pre-Image: $X(-8, 7)$, $Y(-2, 1)$, $Z(-4, -6)$

Reflect over the line $y=-x$; translate three units to the left; then rotate 180° around the origin.

7) Pre-Image: $K(7, 2)$, $L(6, -4)$, $M(3, -3)$, $N(2, 3)$

Rotate 90° counterclockwise around the point $(-1, 4)$.

8) Pre-Image: $G(0, 6)$, $H(5, 3)$, $I(8, -4)$, $J(-2, -1)$

Translate by the rule $(x, y) \rightarrow (x - 5, y + 3)$; then reflect over the line $y = 3$.