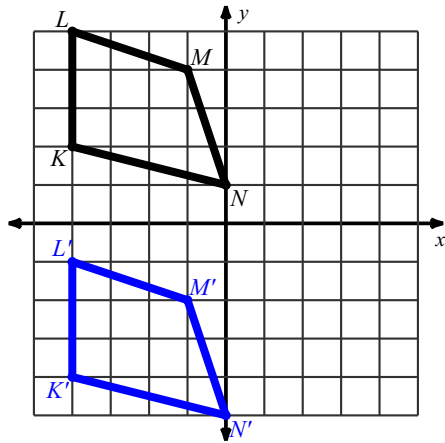Geometry   Name_____
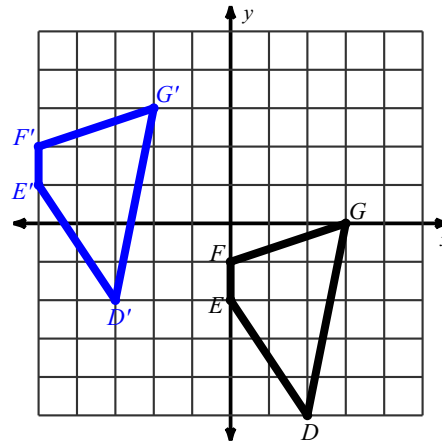
Quiz

Write a rule to describe each transformation.

1)

A) translation: 6 units down
B) translation: 2 units right
C) translation: 2 units right and 4 units down
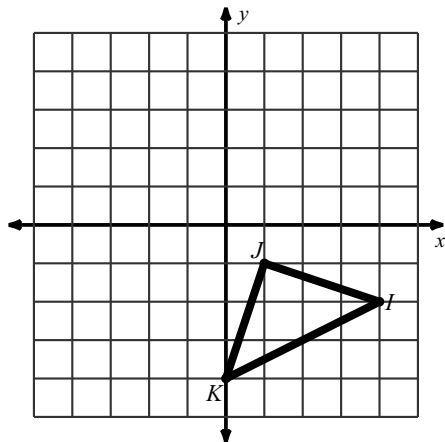D) translation: 2 units right and 5 units down

2)

A) translation: 5 units left and 3 units up
B) translation: 5 units left
C) translation: 5 units left and 1 unit up
D) translation: 4 units left and 4 units up

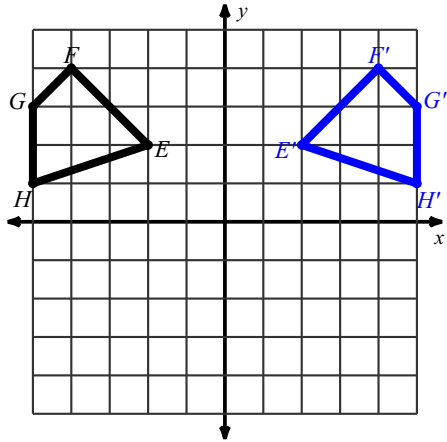**Find the coordinates of the vertices of each figure after the given transformation.**

3) translation: 3 units left and 3 units up

A) $K'(-5, -5), J'(-4, -2), I'(-1, -3)$
B) $K'(-1, 1), J'(0, 4), I'(3, 3)$
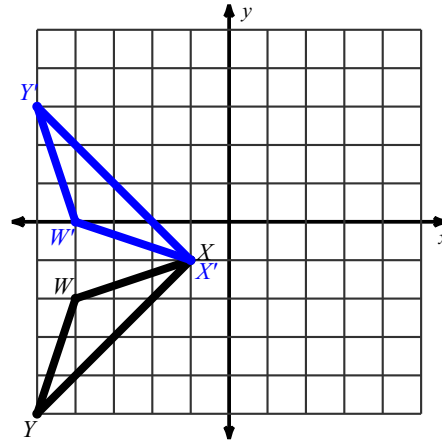C) $K'(-3, -1), J'(-2, 2), I'(1, 1)$
D) $K'(-3, -2), J'(-2, 1), I'(1, 0)$

-1-

Name the line of reflection.

4)

A) reflection across the y-axis
B) reflection across $y = 2$
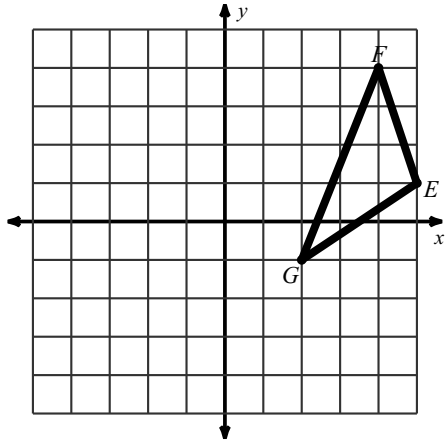C) reflection across $y = 3$
D) reflection across $x = -2$

5)

A) reflection across $x = -2$
B) reflection across the x-axis
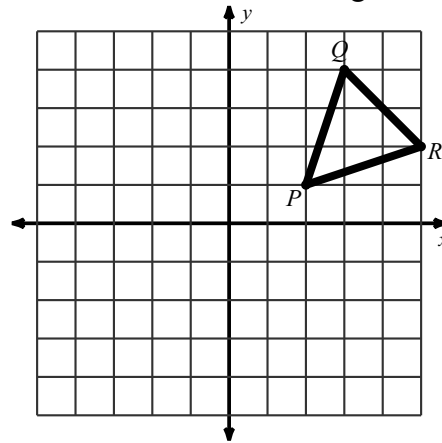C) reflection across $y = -1$
D) reflection across $y = -2$

Find the coordinates of the vertices of each figure after the given transformation.
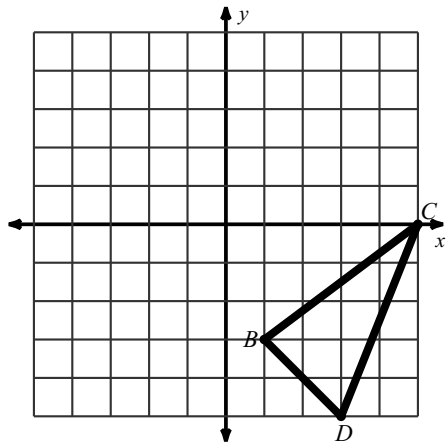
6) reflection across $x = 2$

A) $F'(0, 4)$, $E'(-1, 1)$, $G'(2, -1)$
B) $F'(4, 0)$, $E'(5, 3)$, $G'(2, 5)$
C) $F'(-2, 4)$, $E'(-3, 1)$, $G'(0, -1)$
D) $F'(4, -2)$, $E'(5, 1)$, $G'(2, 3)$

7) rotation 180° about the origin

A) $P'(1, -2)$, $Q'(4, -3)$, $R'(2, -5)$
B) $P'(-2, -1)$, $Q'(-3, -4)$, $R'(-5, -2)$
C) $P'(-1, 2)$, $Q'(-4, 3)$, $R'(-2, 5)$
D) $P'(-4, 2)$, $Q'(-3, 5)$, $R'(-1, 3)$

8) rotation 90° clockwise about the origin

A) $B'(3, 1)$, $C'(0, 5)$, $D'(5, 3)$
B) $B'(-3, -1)$, $C'(0, -5)$, $D'(-5, -3)$
C) $B'(-1, 3)$, $C'(-5, 0)$, $D'(-3, 5)$
D) $C'(-3, 0)$, $D'(-1, -5)$, $B'(1, -3)$

9) rotation 180° about the origin
   $A(0, -3)$, $B(1, -1)$, $C(3, -2)$

A) $A'(0, 3)$, $B'(-1, 1)$, $C'(-3, 2)$
B) $A'(-1, 2)$, $B'(0, 4)$, $C'(2, 3)$
C) $B'(1, 1)$, $C'(3, 2)$, $A'(0, 3)$
D) $A'(3, 0)$, $B'(1, 1)$, $C'(2, 3)$

10) rotation 90° counterclockwise about the origin
    $W(3, -1)$, $X(4, -1)$, $Y(4, -3)$

A) $X'(-2, -1)$, $Y'(-2, -3)$, $W'(-1, -1)$
B) $W'(1, 3)$, $X'(1, 4)$, $Y'(3, 4)$
C) $W'(-2, 0)$, $X'(-1, 0)$, $Y'(-1, -2)$
D) $W'(-3, 1)$, $X'(-4, 1)$, $Y'(-4, 3)$