1.4 Reflections & Other Lines Guided Notes      Name: _____

1) Reflect ABC over the line x=1.
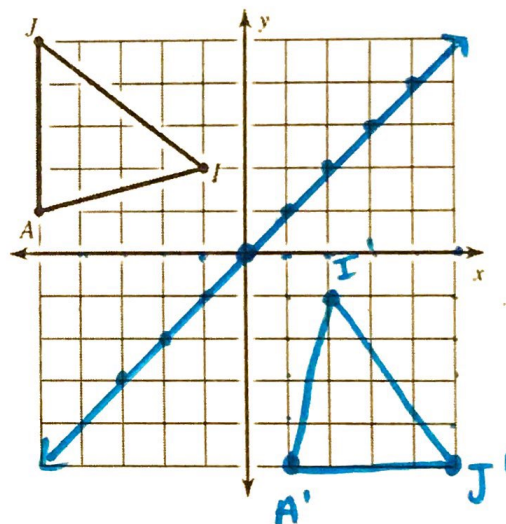
- use counting method
   (count from line)

2) Reflect ABC over the line y=-1.

   - use counting method
   (count from line)

\* what is B' when reflected over
   y=-1?  B'(5,2)

3) Reflect JAI over the line y=x. (diagonal line
                                    through origin
                                    w/ slope of 1)

$$(x,y) \rightarrow '(y,x)$$

4) What is the rule for the reflection y=x?

$$J(-5,5) \rightarrow J'(5,-5)$$
$$A(-5,1) \rightarrow A'(1,-5)$$
$$I(-1,2) \rightarrow I'(2,-1)$$

5) Reflect GTB over the line y=-x. (diagonal line
                                    through origin
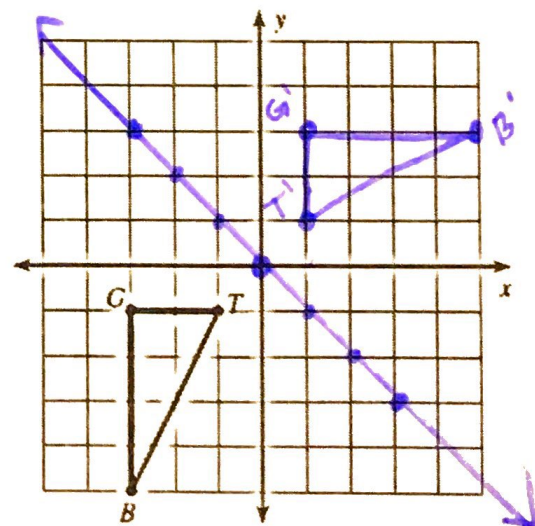                                    w/ slope of -1)

$$(x,y) \rightarrow (-y,-x)$$

6) What is the rule for reflecting over the line y=-x?
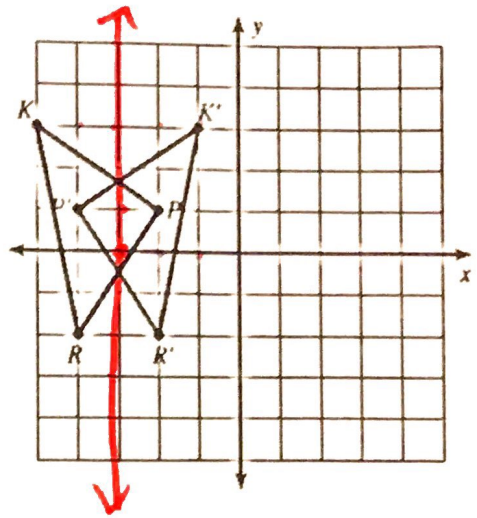
$$G(-3,-1) \rightarrow G'(+1,+3)$$
$$T(-1,-1) \rightarrow T'(+1,+1)$$
$$B(-3,-5) \rightarrow B'(+5,+3)$$

**7)** What transformation has occurred in the picture?
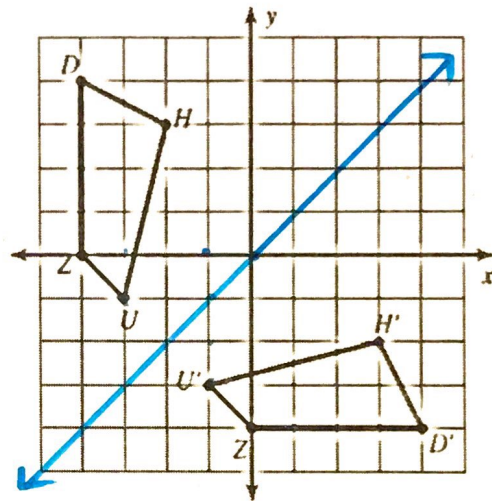
Reflected over
the line $X = -3$



**8)** What transformation occurred?

Reflect over $y = x$.

$$u(\overset{x}{-3}, \overset{y}{-1}) \longrightarrow u'(\overset{y}{-1}, \overset{x}{-3})$$

$$(x, y) \longrightarrow (y, x)$$



$$(x, y) \longrightarrow '(-y, -x)$$

**9)** Reflect IXE over the line y=-x.

$$X(-4, -1) \longrightarrow X'(+1, +4)$$

$$I(-4, 3) \longrightarrow I'(+3, +4)$$

$$E(-3, -3) \longrightarrow E'(+3, +3)$$