

1.4 Reflections & Other Lines Guided Notes

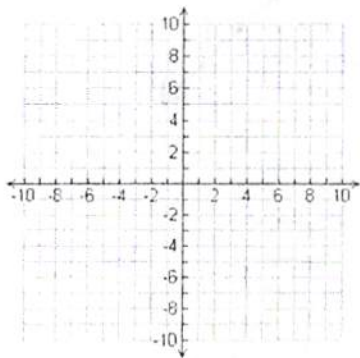
Warm-Up:

1) Reflect over x -axis.

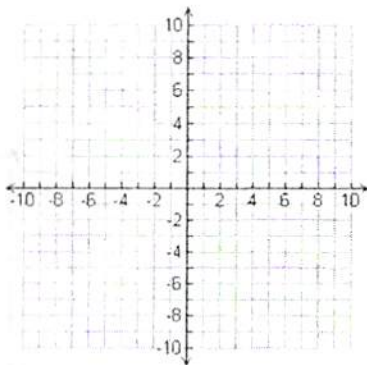
2) $A(2,1) \rightarrow A'(-2,1)$

3)

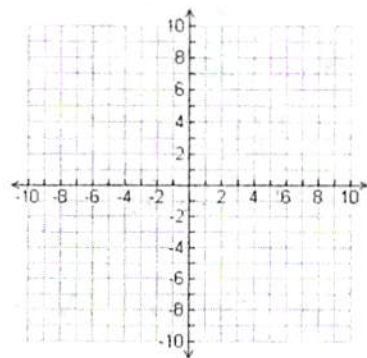
4)



5)



6)

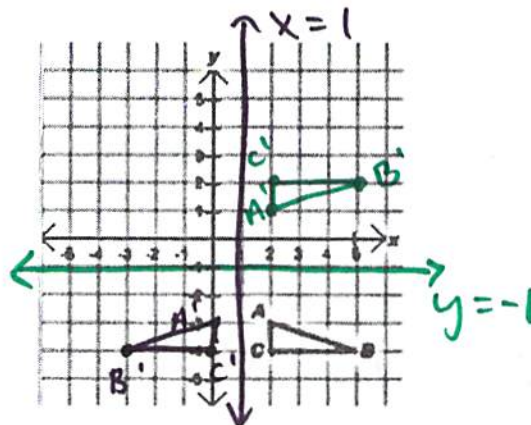


1) Reflect $\triangle ABC$ over the ~~y~~ $x=1$.

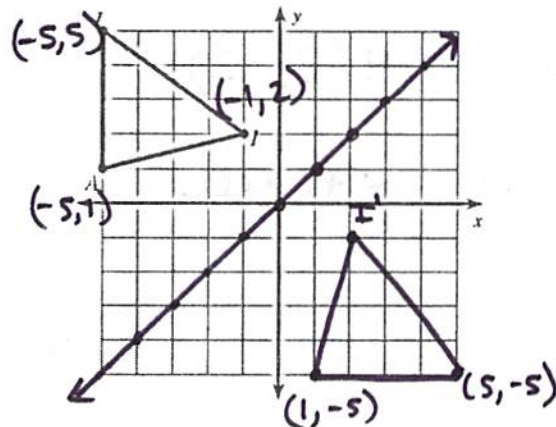
- count from the line $x=1$.

reflect over $y=-1$.

- count from the line $y=-1$.



2) Reflect $\triangle JAI$ over $y=x$.



3) What is the rule?

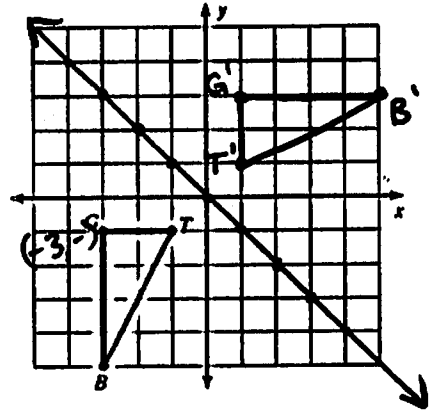
$(x,y) \rightarrow (y,x)$

$(-5,5) \rightarrow (5,-5)$

$(-5,1) \rightarrow (1,-5)$

$(-1,2) \rightarrow (2,-1)$

4) Reflect $\triangle GTB$ over $y = -x$.



5) What is the rule?

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

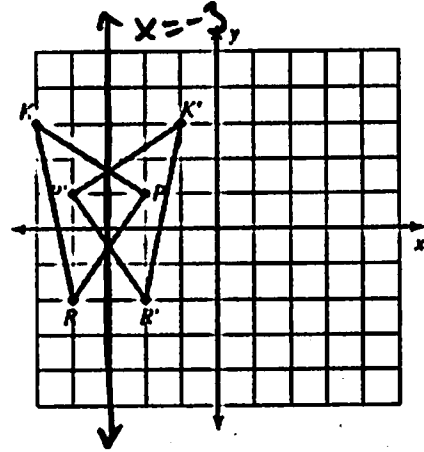
$$(-3, -1) \rightarrow (1, 3)$$

$$(-1, -1) \rightarrow (1, 1)$$

$$(-3, -5) \rightarrow (5, 3)$$

6) What transformation has occurred in the figure?

reflect over $x = -3$



7) What transformation occurred?

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

$$H(-2, +3) \rightarrow H'(3, -2) \checkmark$$

* x & y switched.

