

**Rotations**

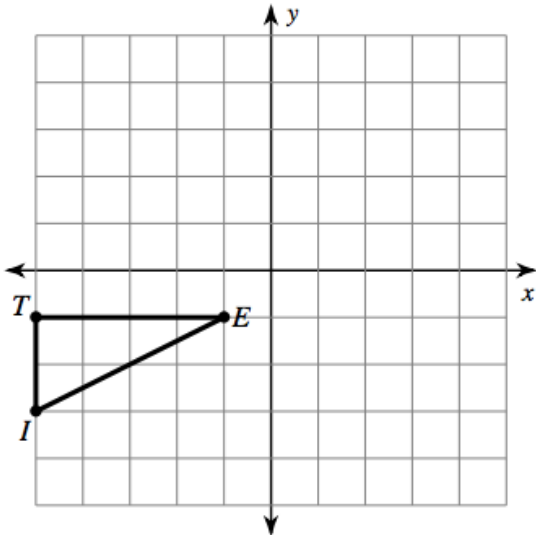
$$90^\circ - (x, y) \rightarrow (-y, x)$$

$$180^\circ - (x, y) \rightarrow (-x, -y)$$

$$270^\circ - (x, y) \rightarrow (y, -x)$$

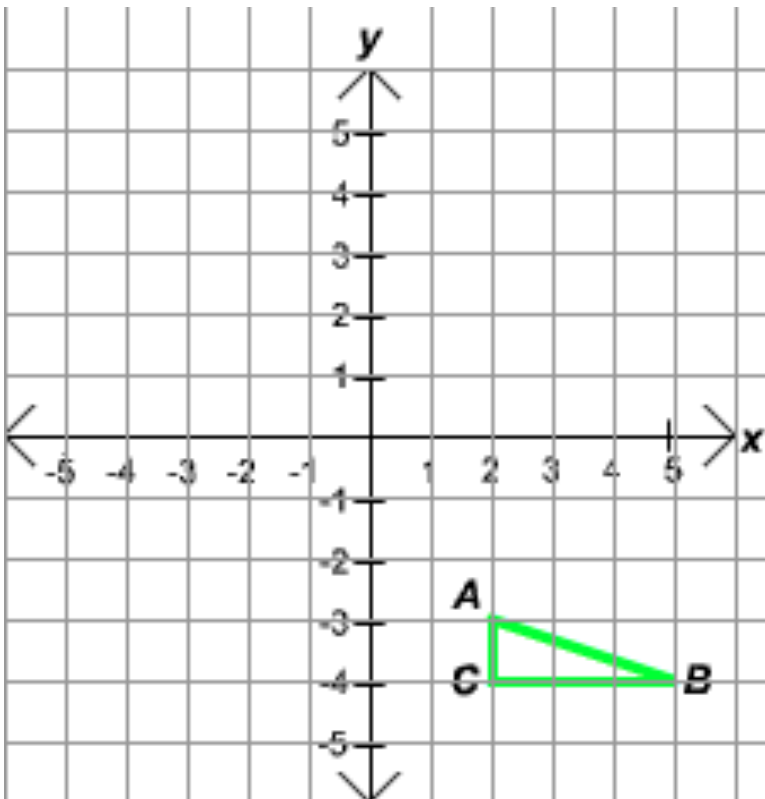
Then translate 2 right and 1 up

Rotate  $90^\circ$  (get some graph paper from Mr. Rasmussen for your image)



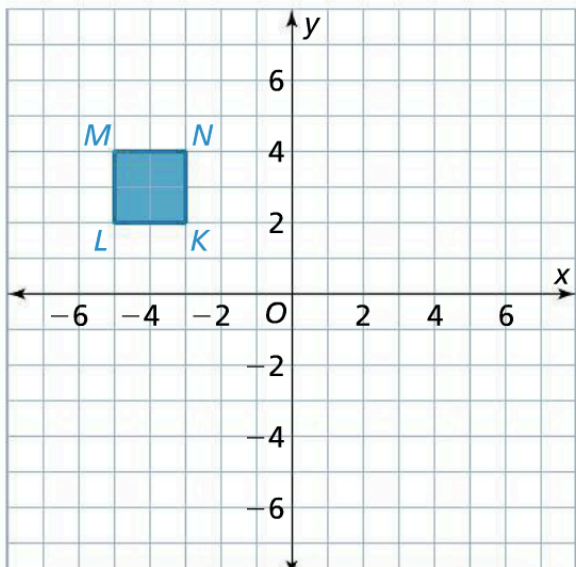
Reflect over the x axis,

rotate  $270^\circ$  (get some graph paper from Mr. Rasmussen for your image)



Find the coordinates of an image after a...

**ENLARGEMENT of 2**



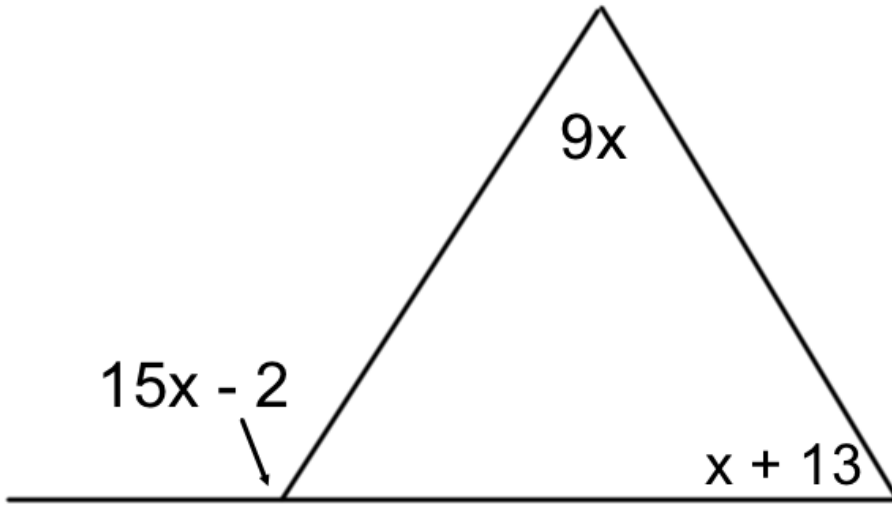
**REDUCTION of  $\frac{1}{3}$**

**A (6, 3)**

**B (-9, 12)**

**C (33, 21)**

Solve for x



**Name the angle relationship**

*Alternate interior, consecutive, corresponding, or NONE*

10 and 15

3 and 7

2 and 5

13 and 11

7 and 14

13 and 5

