

Translated  $(2, -3)$  then  $(-2, 3)$

Right 2 units  
Down 3 units

Left two units  
Up 3 units

$$x \quad 2 - 2 = 0$$

$$y \quad -3 + 3 = 0$$

$(0, 0)$

No movement  
Same position

24.)            3 left -3    Translation  
                  4 down -4            (-3, -4)

A (0, -1)    B (-2, -1)    C (3, +5)  
          -3 -4            -3 -4            -3 -4

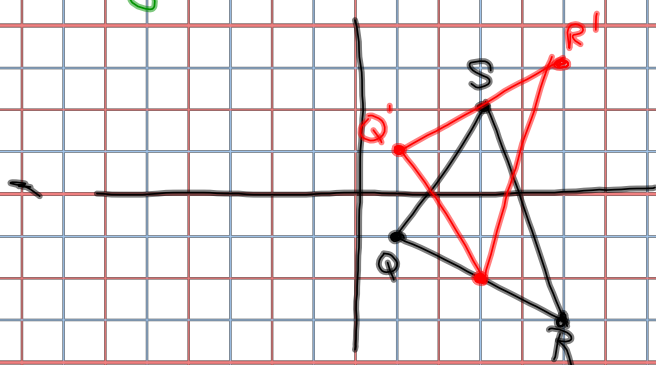
A' (-3, -5)    B' (-5, -5)    C' (0, 1)

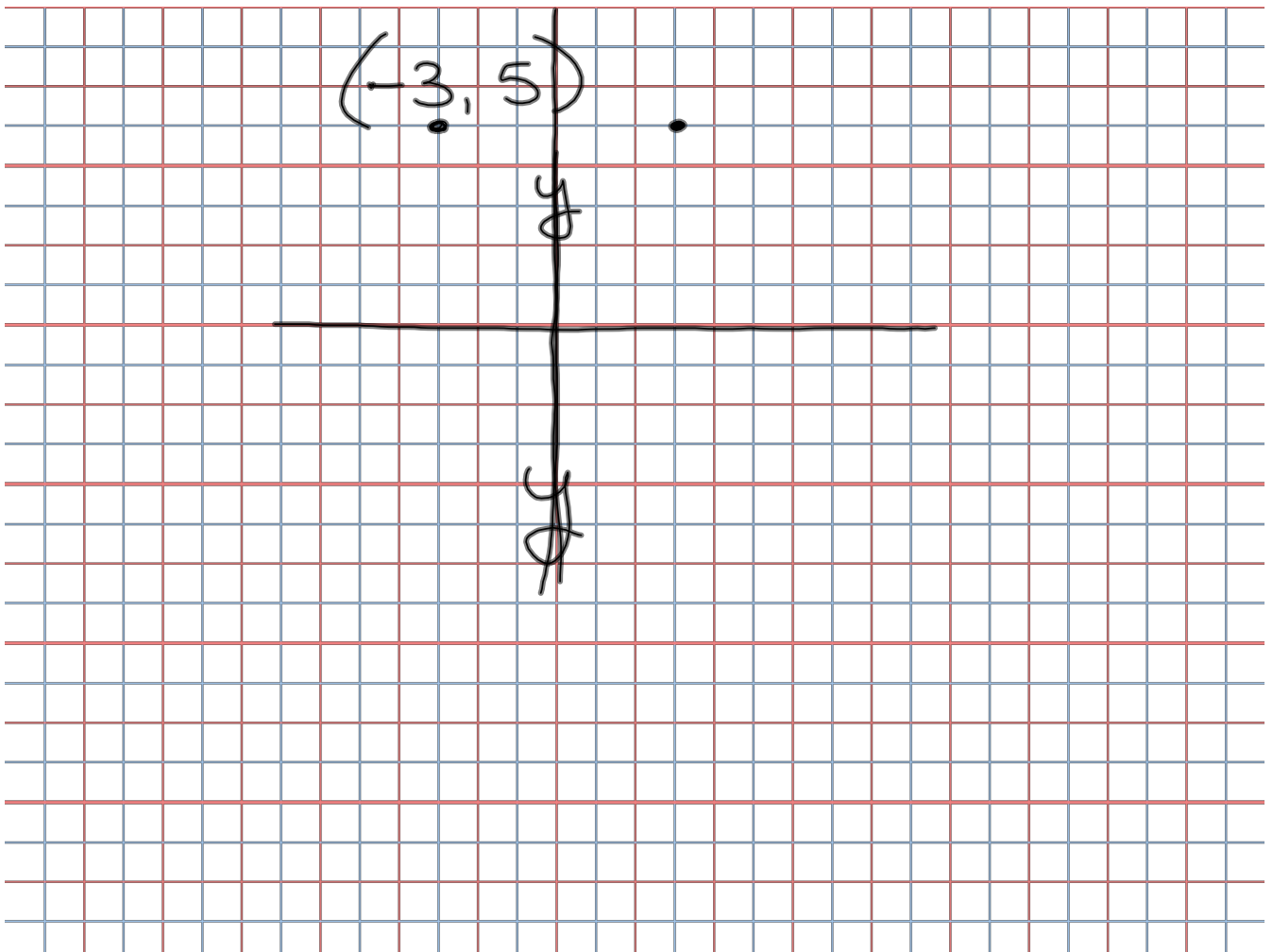
14.) QRS      Q'R'S'      Reflection over the x  
axis

Q (1, -1)    R (5, -3)    S (3, 2)

Q' (1, 1)    R' (5, 3)    S' (3, 2)

X #'s are the same  
y #'s are opposites





$$(x, y) \quad (x+4, y+2)$$

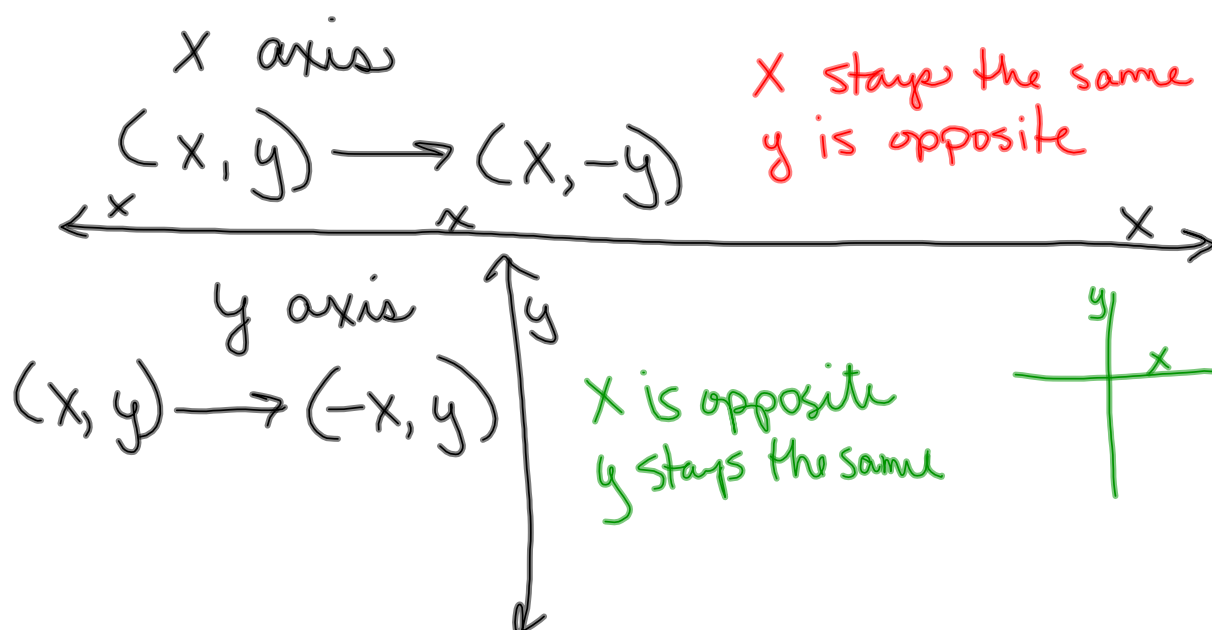
right 4'      up 2

$$\begin{array}{r} M(-5, 3) \\ +4, +2 \\ \hline M'(-1, 1) \end{array}$$

$$\begin{array}{r} T(-2, -5) \\ +4 \quad +2 \\ \hline T'(2, -3) \end{array}$$

$$\begin{array}{r} H(-5, -5) \\ +4 \quad +2 \\ \hline H'(-1, -3) \end{array}$$

## Reflections



y axis  
X is opposite

X axis  
y is opposite