1. Write the equation of the line that passes through these two points in both Slope-Intercept and Point-Slope Forms.

$$(5,-3)&(8,7)$$

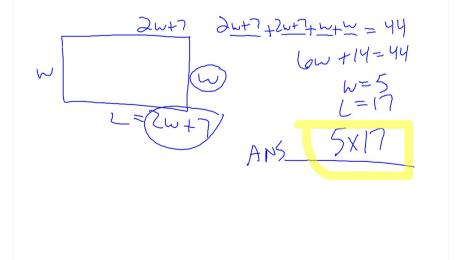
$$M = \frac{10}{3}$$

$$y - 7 = \frac{10}{3}x - \frac{80}{3}$$

$$y = \frac{10}{3}x - \frac{59}{3}$$

$$y = \frac{10}{3}x - \frac{59}{3}$$

3. The length of a <u>rectangle</u> is seven more than twice the width. If the perimeter of the rectangle is 44in find the dimensions of the rectangle.



- 2. Use this line for parts a and b. y = -4x + 11
- a) Write the equation of the line that is <u>perpendicular</u> to the above line and passes through the point (9,1)

$$M = y$$

$$y - 1 = y(x - 9)$$

b) Write the equation of the line that is parallel to the above line and passes through the point (-14,37)