

Warm up 
$$y = m \times + b$$
  
 $y - y_1 = \infty(x - x_1)$ 

Find the equation of the line (in general form) that goes through the points A(3,4) and B(-5, 6).

$$M = \frac{y_{2} - y_{1}}{x_{2} - x_{1}}$$

$$= \frac{6 - 4}{-5 - 3}$$

$$= \frac{2}{4}$$

$$= \frac{2}{4}$$

$$= \frac{4}{4}$$

$$= \frac{4$$

## Problems with homework?

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Check Up... Finding the Equation of a Line

- #1. Determine the equation of the line given that...(Put equations in slope-y-intercept Form)
- a) the line passes through the points (-3, 5) & (-2, -7)
- b) the line passes through the point (-2, 3) has the same slope as the line 3x 2y 5 = 0
- c) the line has an x-intercept of 4 and a y-intercept of -3

- d) passes through the point (-3,0) and is perpendicular to the line 3x-12y+2=0
- #2. Determine the equation of each of the following lines...

(Express equations in GENERAL FORM)

a) passing through the ordered pair (-2, 3) and with slope 5/3

b) passing through the ordered pairs (6, -1) and (0, -3)

c) passing through the point (1, 2) and parallel to the line 2x - 5y +1 =0

#3. Show that the triangle whose vertices have the coordinates (3, 3), (8, 17) & (11, 5) is a right triangle.



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