

Be sure to use PROPER mathematical notation and show some steps. Use back of page if needed.

1. Determine the **SLOPE** of the line between $(2, -8)$ and $(-4, -6)$ using the **SLOPE FORMULA**. Reduce slope completely and leave fractional. x_1, y_1 x_2, y_2

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-6 - (-8)}{-4 - 2} = \frac{-6 + 8}{-6} = \frac{2}{-6} = -\frac{1}{3}$$

$$m = -\frac{1}{3}$$

-3

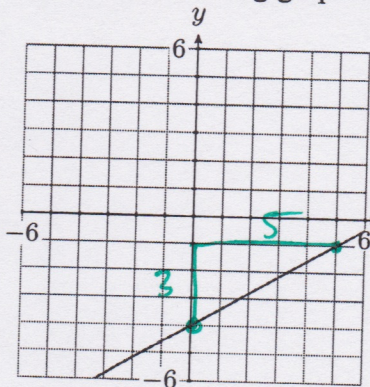
2. Determine the equation of each line in **slope intercept form**

- a. if the slope is $-3/2$ and the y-intercept is $(0, -9)$

$$y = mx + b$$

$$y = -\frac{3}{2}x - 9$$

- b. of the following graph:

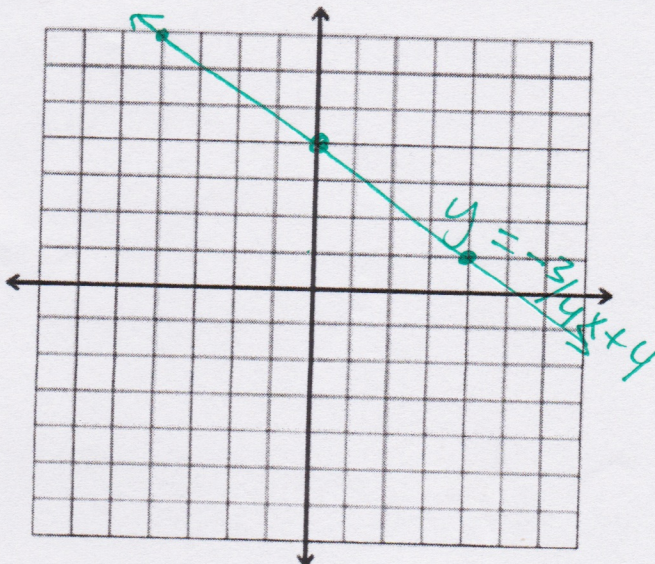


$(0, -4)$ yint
 $m = \frac{4}{5}$

$$y = \frac{4}{5}x - 4$$

1.5

3. Graph the equation (plot at least 3 accurate points): $-3x - 4y = -16$



$$-3x - 4y = -16$$

$$-4y = 3x - 16$$

$$y = -\frac{3}{4}x + 4$$

$(0, 4)$ yint

$$m = -\frac{3}{4}$$