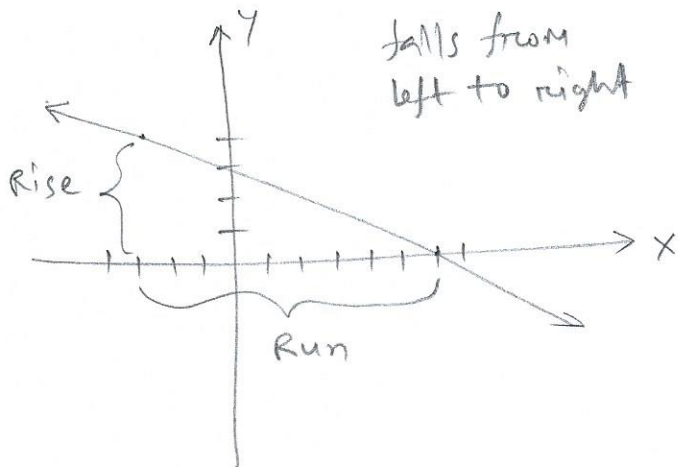


Final review

$$(-2, 3) \text{ \& } (7, -1)$$

$$\text{slope} = -\frac{4}{9}$$



$$\text{slope} = \frac{\text{Rise}}{\text{Run}}$$

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$4c) (5, -4), (1, -4)$$

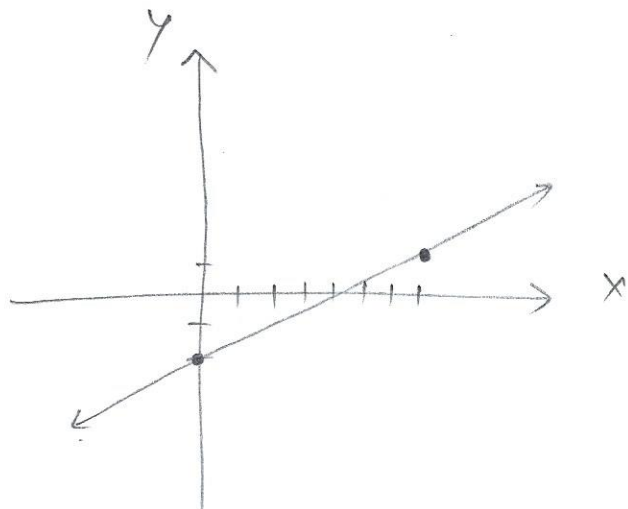
$$\text{slope} = \frac{0}{4} = 0$$

Horizontal

$$4d) (11, -1), (3, -5)$$

$$\text{slope} = \frac{4}{8} = \frac{1}{2}$$

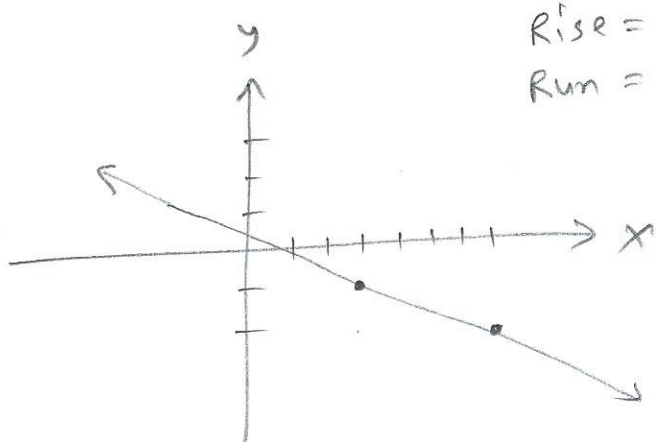
5a) $(0, -2)$ slope = $\frac{3}{7}$



Rise = 3

Run = 7

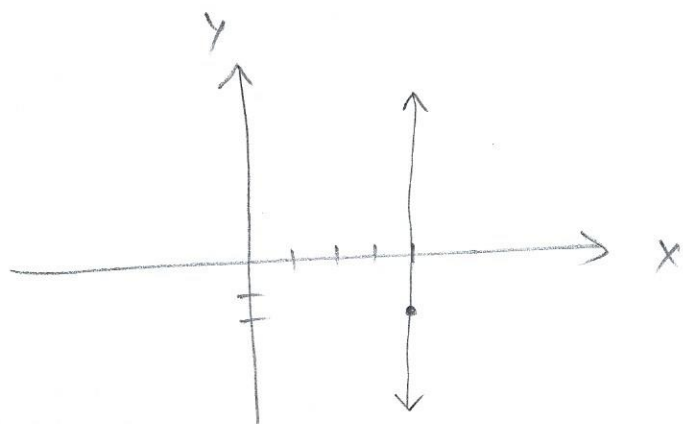
5b) $(3, -1)$ slope = $-\frac{1}{4}$



Rise = -1

Run = 4

$(4, -2)$ slope is undefined



$$6a) 5x - 3y = 9$$

$$(0, -3)$$

$$\left(\frac{9}{5}, 0\right)$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3}{9/5} = 3 \cdot \frac{5}{9} = \frac{5}{3}$$

$$5x - 3y = 9$$

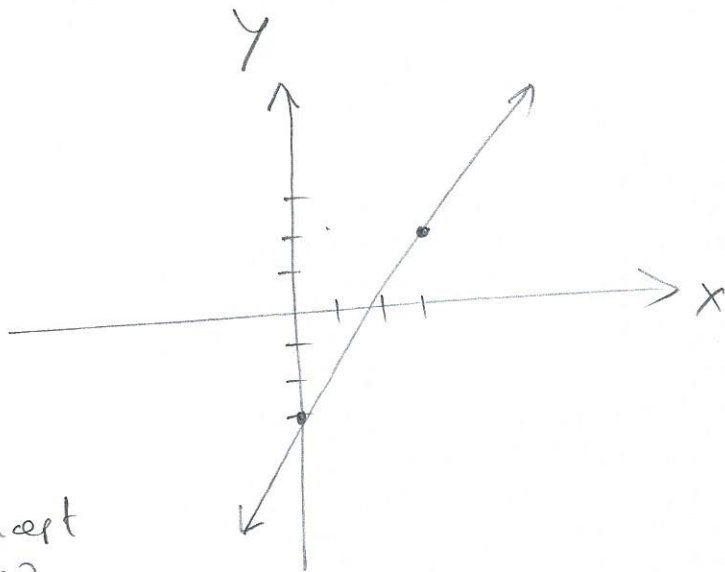
$$-3y = 9 - 5x$$

$$\frac{-3y}{-3} = \frac{-5x + 9}{-3}$$

$$y = \frac{5}{3}x - 3$$

$$\text{slope} = \frac{5}{3}$$

y-intercept
(0, -3)



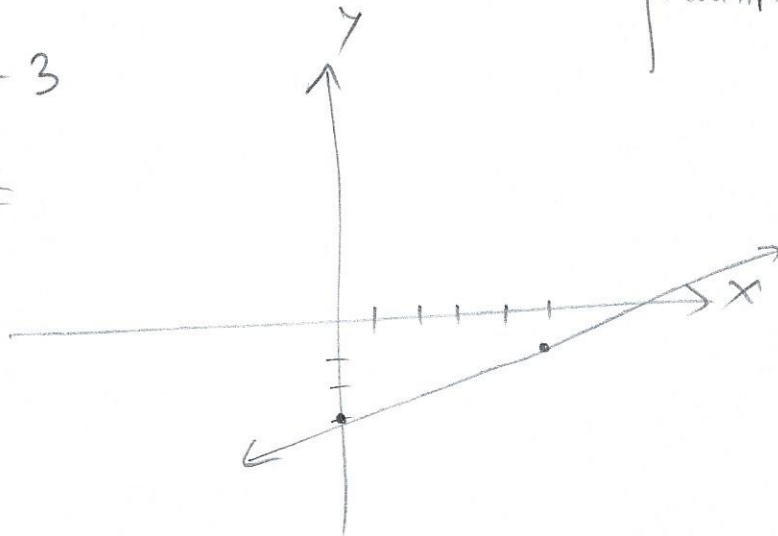
$$2x - 5y = 15$$

$$-5y = -2x + 15$$

$$\frac{-5y}{-5} = \frac{-2x + 15}{-5}$$

$$y = \frac{2}{5}x - 3$$

$$\text{slope} = \frac{2}{5}$$



To find a slope from an equation, solve for y , in terms of x . Then the number multiply to x is the slope.

$$(b) -3x - 2y = 4$$

$$\frac{-2y}{-2} = \frac{3x+4}{-2}$$

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

$$\text{slope} = -\frac{3}{2}$$

$$y\text{-intercept} = (0, -2)$$

