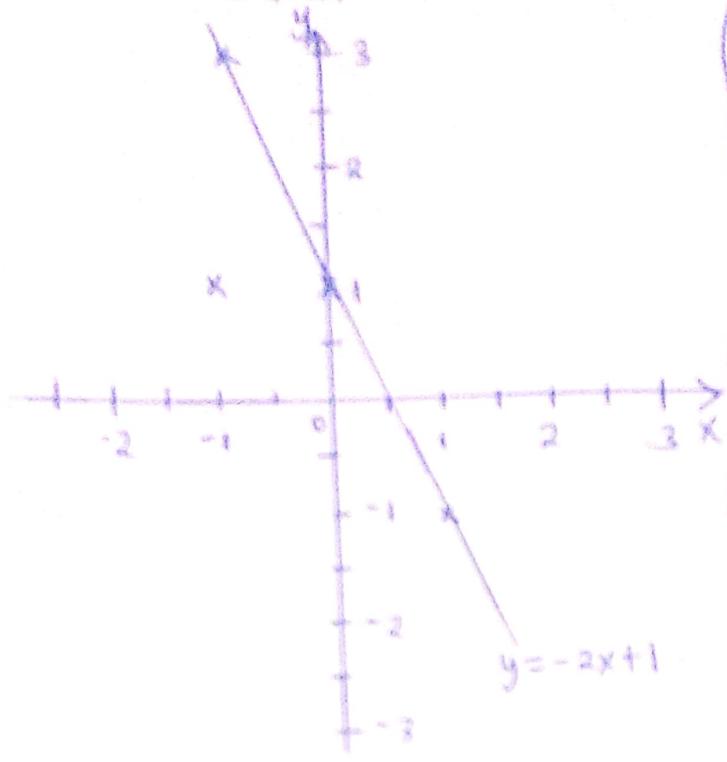


| x | $y = -2x + 1$ | (x, y) |
|-----|---------------|-----------|
| -1 | 3 | $(-1, 3)$ |
| 0 | 1 | $(0, 1)$ |
| 1 | -1 | $(1, -1)$ |



b) $M = \frac{2}{3}$ y-intercept = $(0, -1)$

$$\frac{2}{3} = \frac{y+1}{x}$$

$$3y + 3 = 2x$$

$$3y = 2x - 3$$

$$y = \frac{2}{3}x - 1$$

c) $M = 0$ y-intercept $(0, 3)$

$$\frac{0}{1} = \frac{y-3}{x}$$

$$y - 3 = 0$$

$$y = 3$$

2. Slope = $\frac{\Delta y}{\Delta x}$ A $(-4, -5)$
B $(4, 1)$

$$\text{Slope} = \frac{-5 - 1}{-4 - 4} = \frac{-6}{-8} = \frac{6}{8} = \frac{3}{4}$$

$$\text{Slope} = \frac{3}{4}$$

A a) $y = -2x + 3$

Slope = -2
y-int = 3

b) $y = \frac{4}{5}x - 1$

Slope = $\frac{4}{5}$
y-int = -1

3a) $M = -5$ y-intercept = $(0, 4)$

$$\frac{-5}{1} = \frac{y-4}{x}$$

$$y - 4 = -5x$$

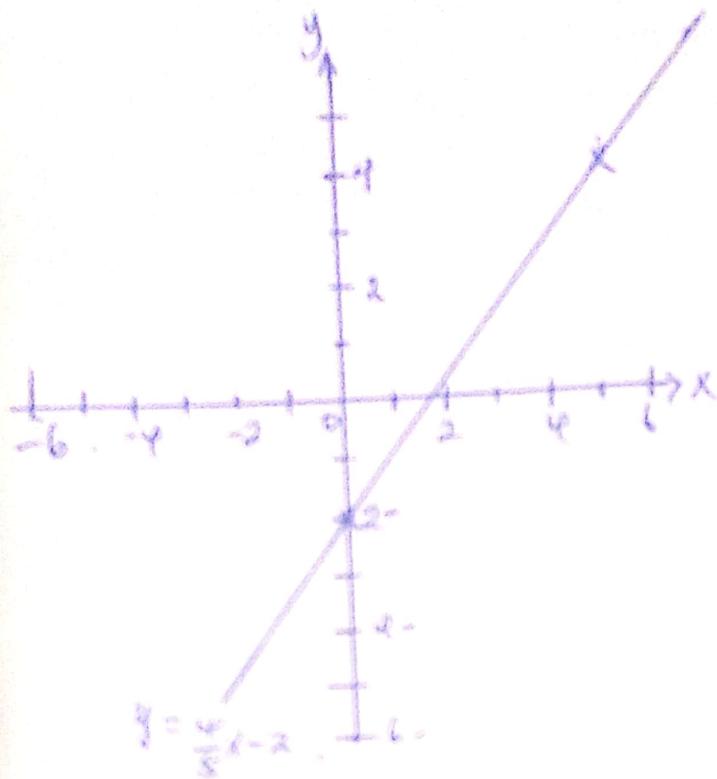
$$y = -5x + 4$$

6. c) $y = \frac{4}{5}x - 2$

Slope = $\frac{4}{5}$
y-int = -2

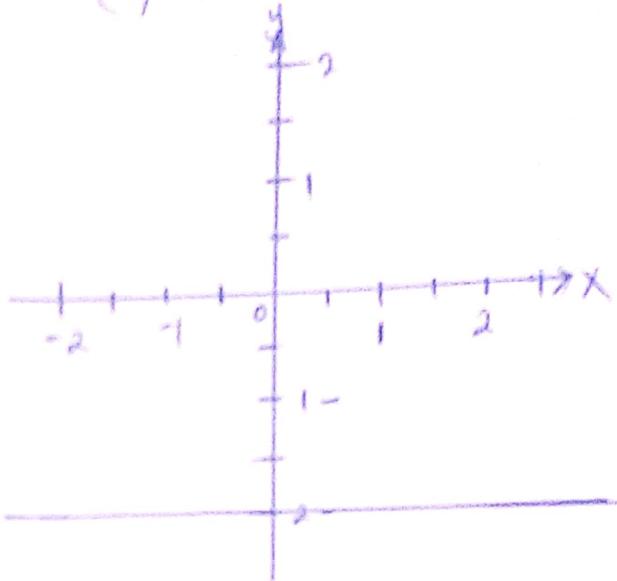
$$\frac{4}{x} = \frac{4}{5} \quad (5, 4) \quad (0, -2)$$

$$(5, 4) \quad (0, -2)$$



c) $y = -2$
 Slope = 0
 y-int = -2.

$(0, -2)$ $(0, 0)$.



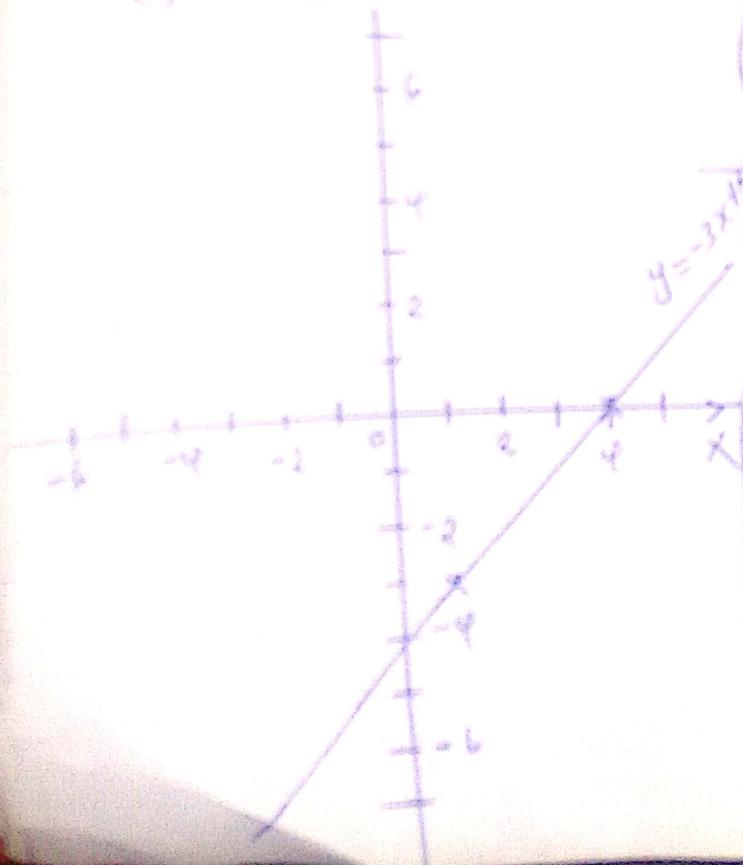
b) $y = -3x + 4$

Slope = -3

y-int = 4.

$\frac{y}{x} = \frac{-3}{1}$

$(1, -3)$ $(0, 4)$



5 $y = 10x - 4$

$y = -\frac{1}{2}x + 4$

$y = x - 6$

$y = \frac{3}{4}x + 1$

7. $y = mx + b$.

$m = -2$ $\frac{-2}{1} = \frac{y-4}{x-5}$

$x = 5$

$y = 4$

$y - 4 = -2x + 10$

$y = -2x + 10 + 4$

$y =$

$y = -2x + 14.$

8. $(-8, -11) (4, -2)$

$$M = \frac{-2 + 11}{4 + 8} = \frac{9}{12} = \frac{3}{4}$$

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

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

$$-8 - 4y = 12 - 3x$$

$$-4y = -3x + 12 + 8$$

$$-4y = -3x + 20$$

$$y = \frac{3}{4}x + \frac{20}{-4}$$

$$y = \frac{3}{4}x - 5.$$

9. $-3x + 6y + 18 = 0$

$$6y = 3x - 18$$

$$y = \frac{3}{6}x - \frac{18}{6}$$

$$y = \frac{1}{2}x - 3.$$

$$\text{Slope} = \frac{1}{2}.$$

$$y\text{-int.} = -3.$$

9.

