

Math Activity for this week

Post Test Checkup - pale gold

Calculator worksheet - Gray

This weeks and last weeks are due

Monday -

Test Results ☹️

REDO

due

Monday

A

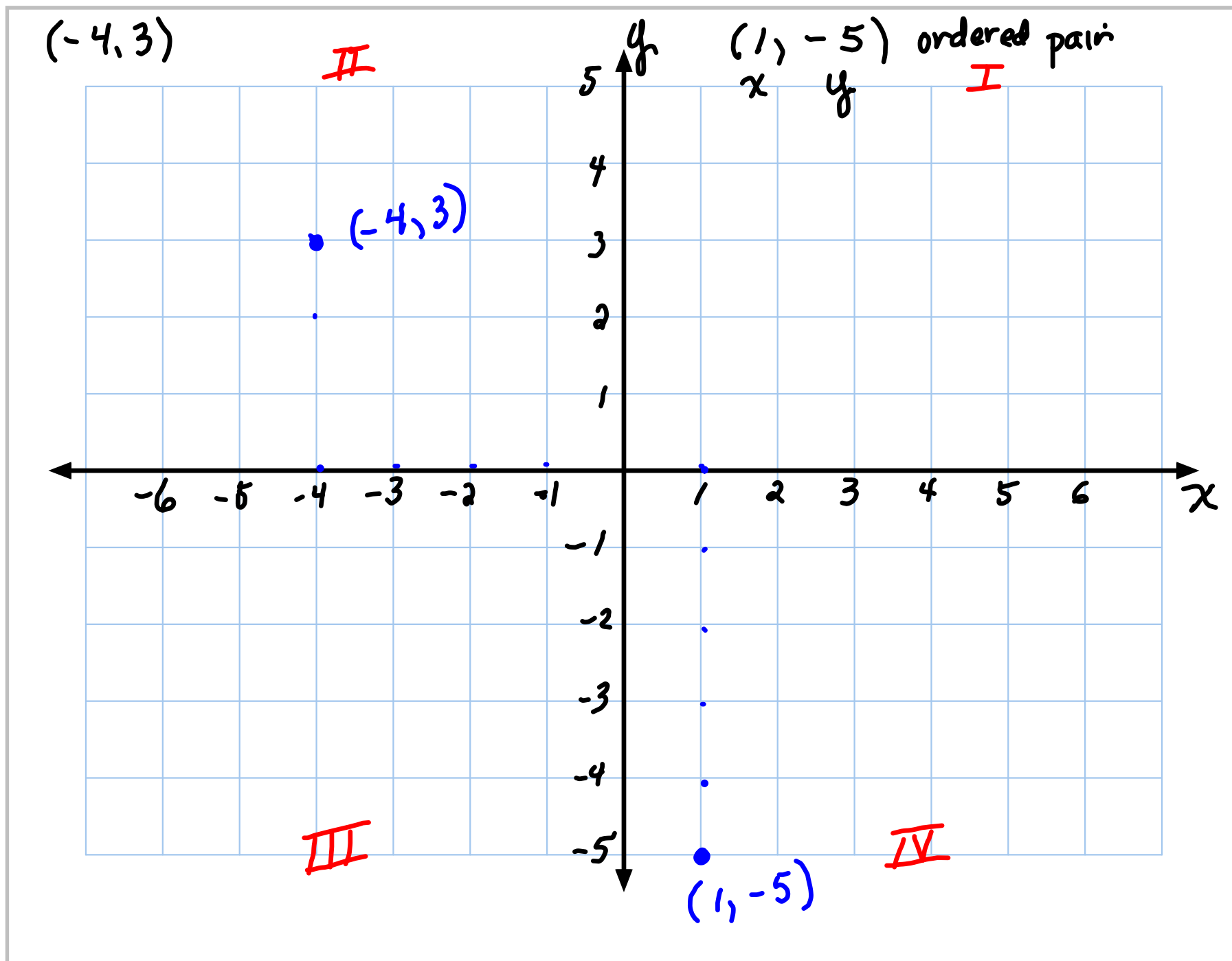
B X

C X X X X

D X X X X

F X X X X X X X X X X

avg -
59



3.2

① $2x + y = 6$

$(0, 6), (3, 0)$

$2(0) + y = 6$

$(6, -6)$

$y = 6$

$2x + 0 = 6$
$\frac{2x}{2} = \frac{6}{2}$
$x = 3$

$2x + (-6) = 6$

$2x - 6 = 6$

$+6 \quad +6$

$\frac{2x}{2} = \frac{12}{2}$

$x = 6$

⑬

$$y = 4x$$

x	y
0	0
$-\frac{1}{2}$	-2
-3	-12
3	12

$$\begin{aligned} y &= 4(0) \\ y &= 0 \\ \hline -\frac{2}{4} &= \frac{4x}{4} \\ -\frac{1}{2} &= x \end{aligned}$$
$$\begin{aligned} y &= 4(-3) \\ y &= -12 \\ \hline \frac{12}{4} &= \frac{4x}{4} \\ 3 &= x \end{aligned}$$

3.3

Graphing linear equations

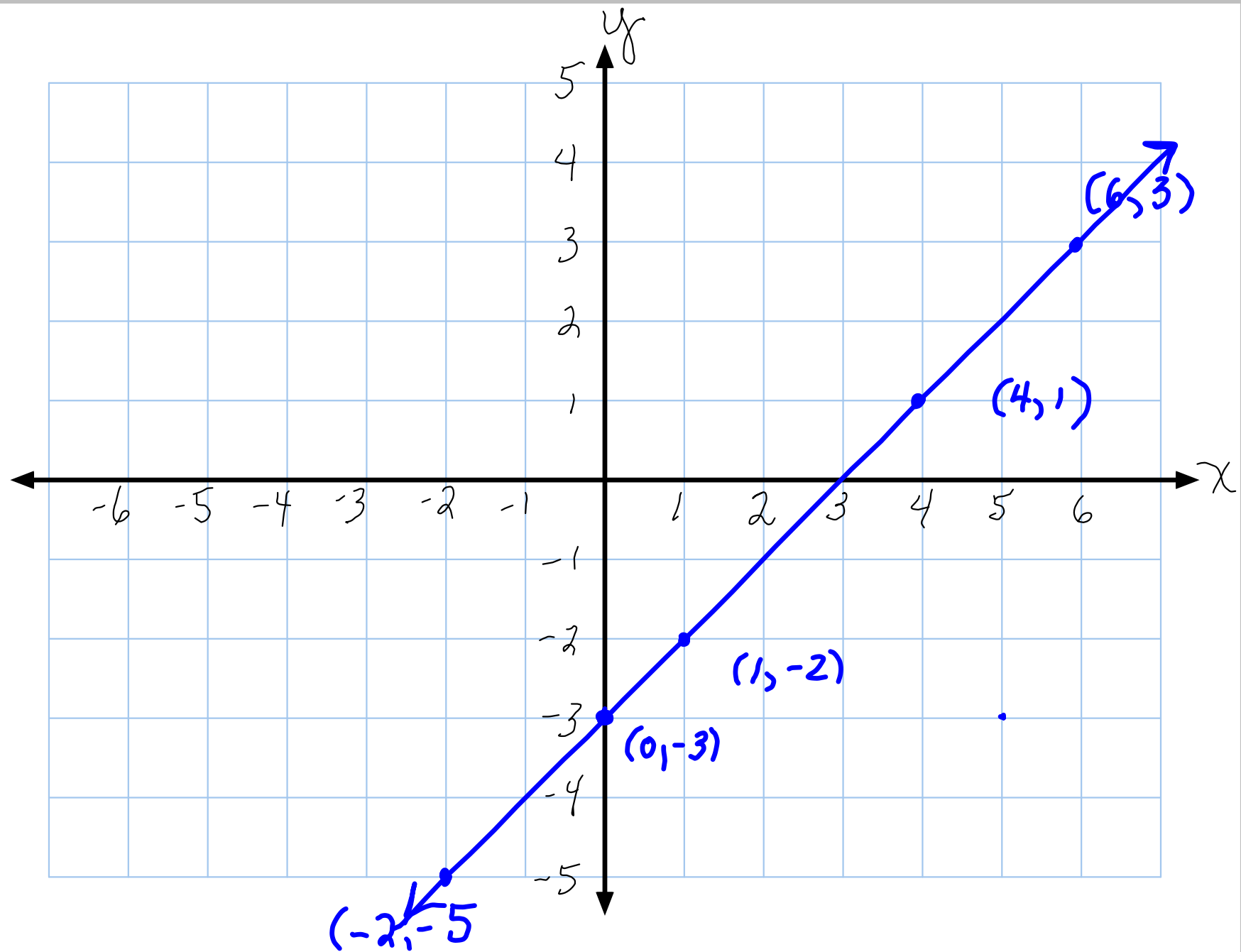
$ax + by = c$ is a line.
standard

(ex) Graph $x - y = 3$ Usually solve for y

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

$$y = x - 3$$

x	y
0	-3
1	-2
4	1
6	3
-2	-5



How to graph a straight line

① Find 3 ordered pairs that satisfy the equation

Graph those points

Draw a straight line through those points-

& remember arrows

Graph

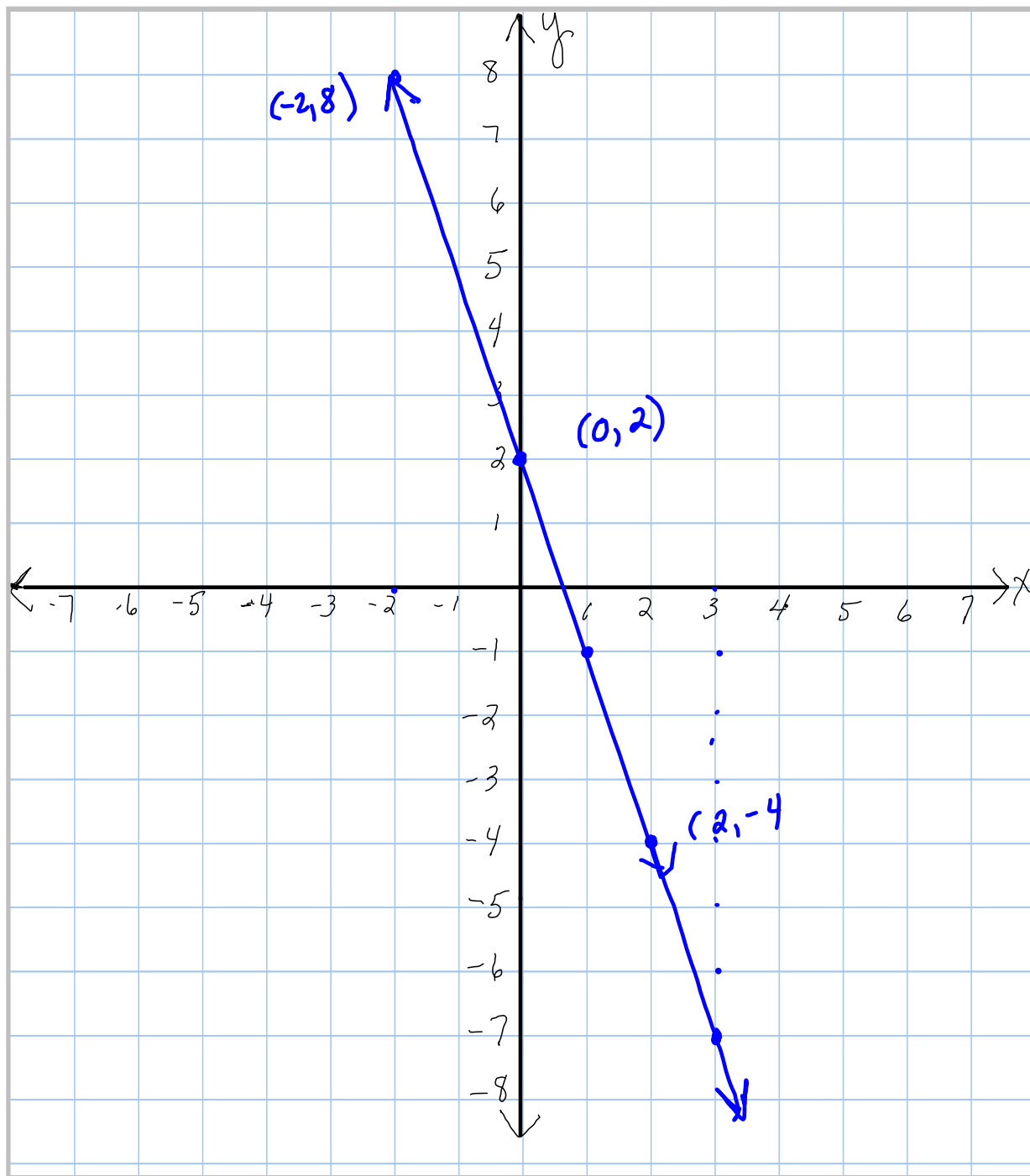
$$\begin{array}{r} 3x + y = 2 \\ -3x \quad \quad -3x \\ \hline y = -3x + 2 \end{array}$$

x	y
0	2
2	-4
-2	8
3	

$$\begin{aligned} y &= -3(2) + 2 \\ &= -6 + 2 \\ &= -4 \end{aligned}$$

$$\begin{aligned} y &= -3(-2) + 2 \\ &= 6 + 2 \\ &= 8 \end{aligned}$$

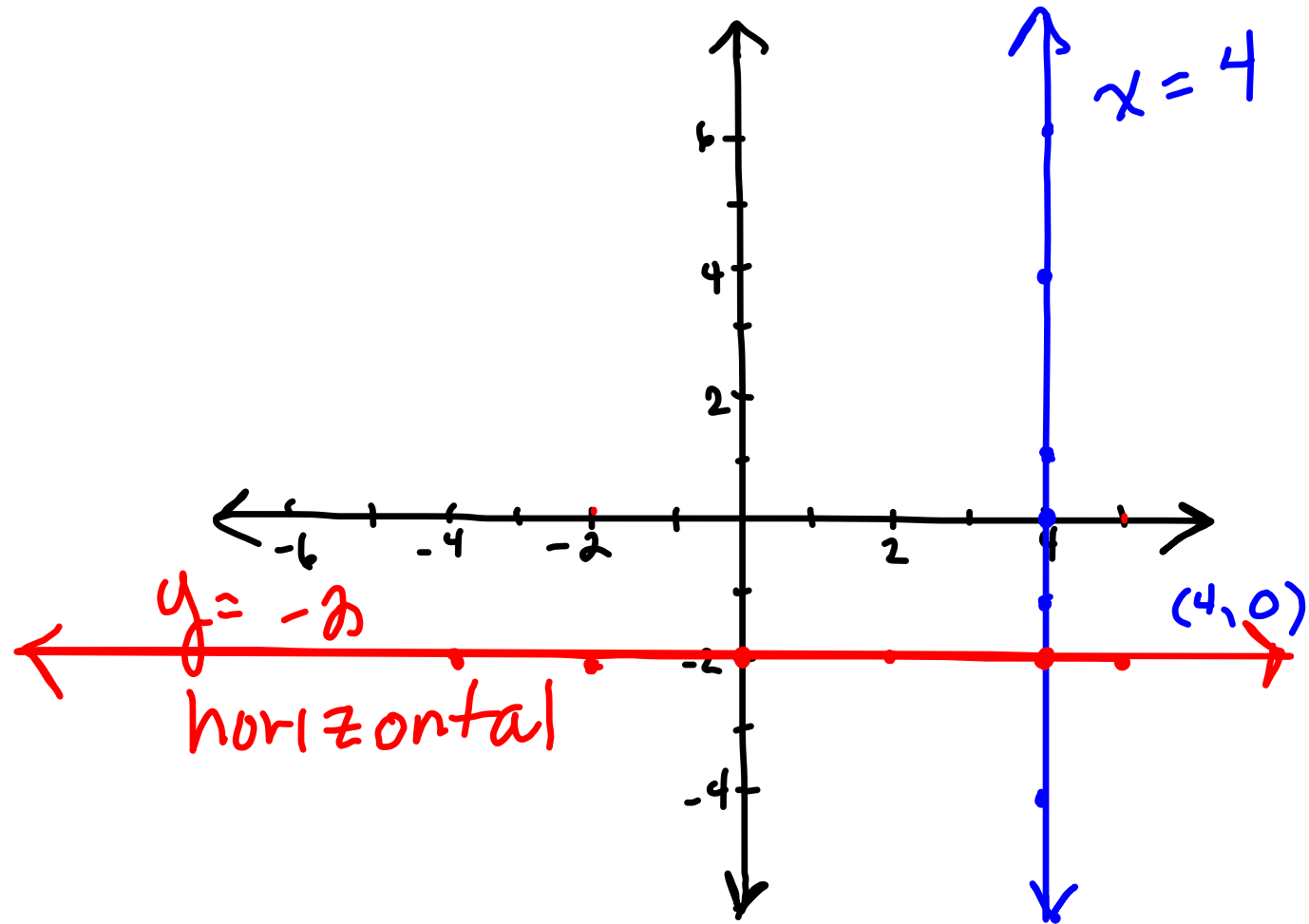
$$\begin{aligned} y &= -3(3) + 2 \\ &= -9 + 2 \\ &= -7 \end{aligned}$$



(24)

Graph $x = 4$

$y = -2$



Graph

$$\begin{array}{r} 2x + 3y = 6 \\ -2x \quad \quad -2x \\ \hline \end{array}$$

$$\frac{3y}{3} = \frac{-2x + 6}{3}$$

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

$$y = -\frac{2}{3}\left(\frac{1}{3}\right) + 2$$

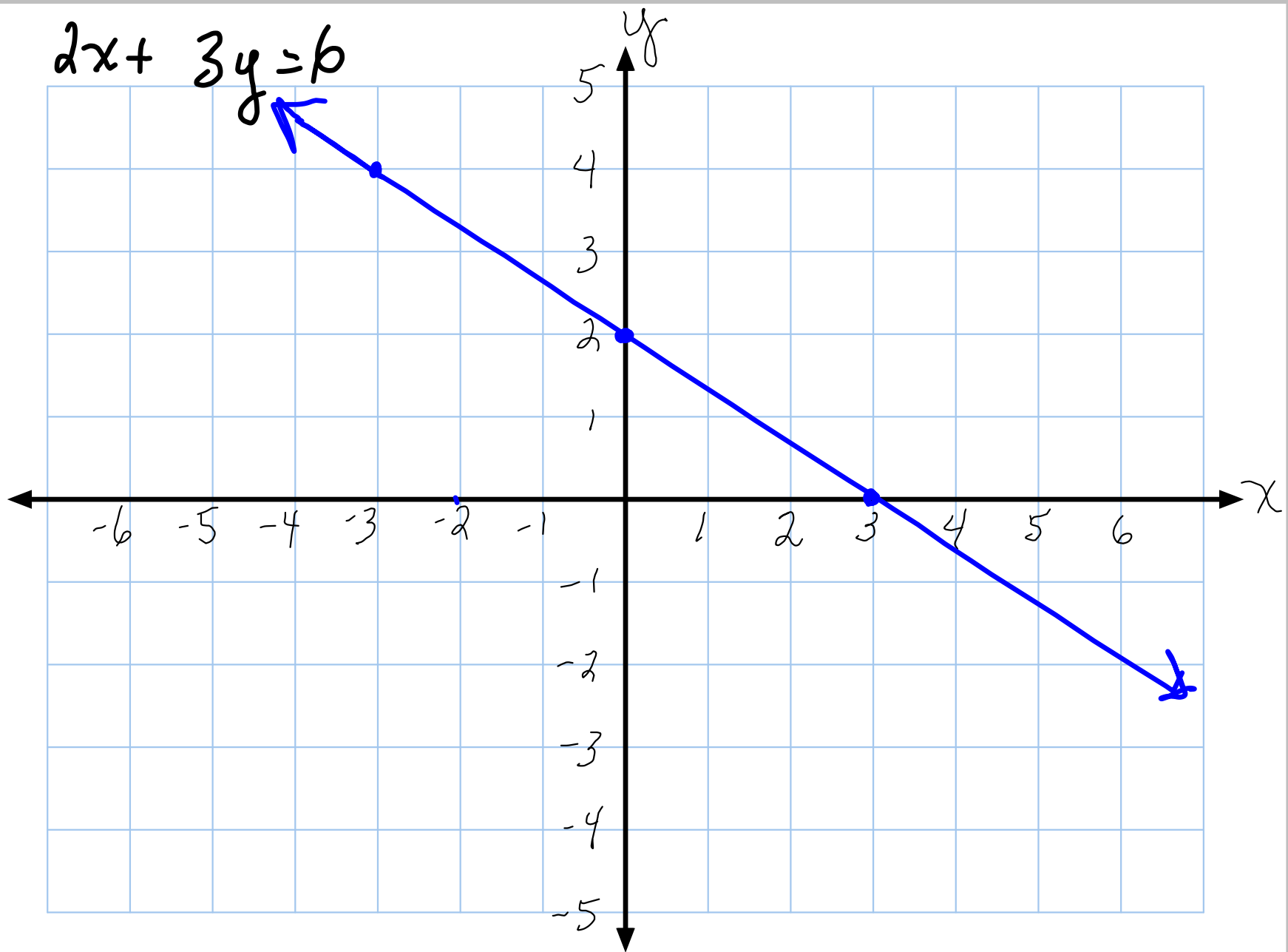
$$y = -2 + 2$$

$$y = -\frac{2}{3}(6)^2 + 2$$

$$\begin{aligned} &= -4 + 2 \\ &= -2 \end{aligned}$$

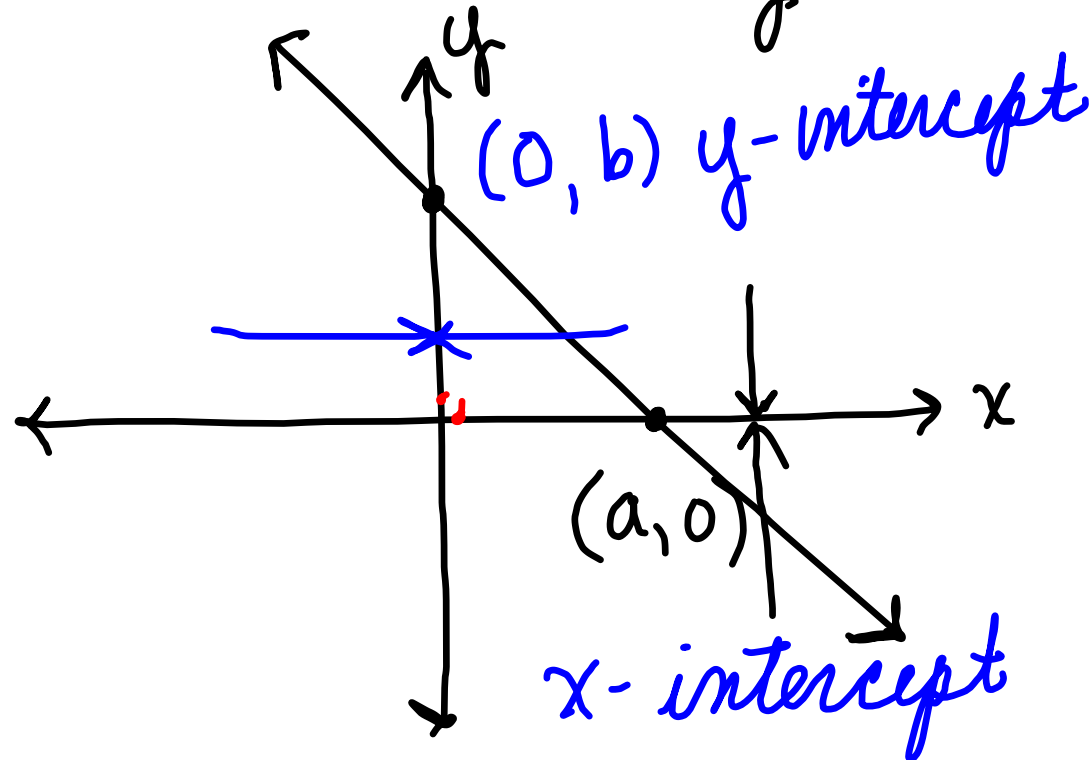
x	y
0	2
3	0
6	-2
-3	4

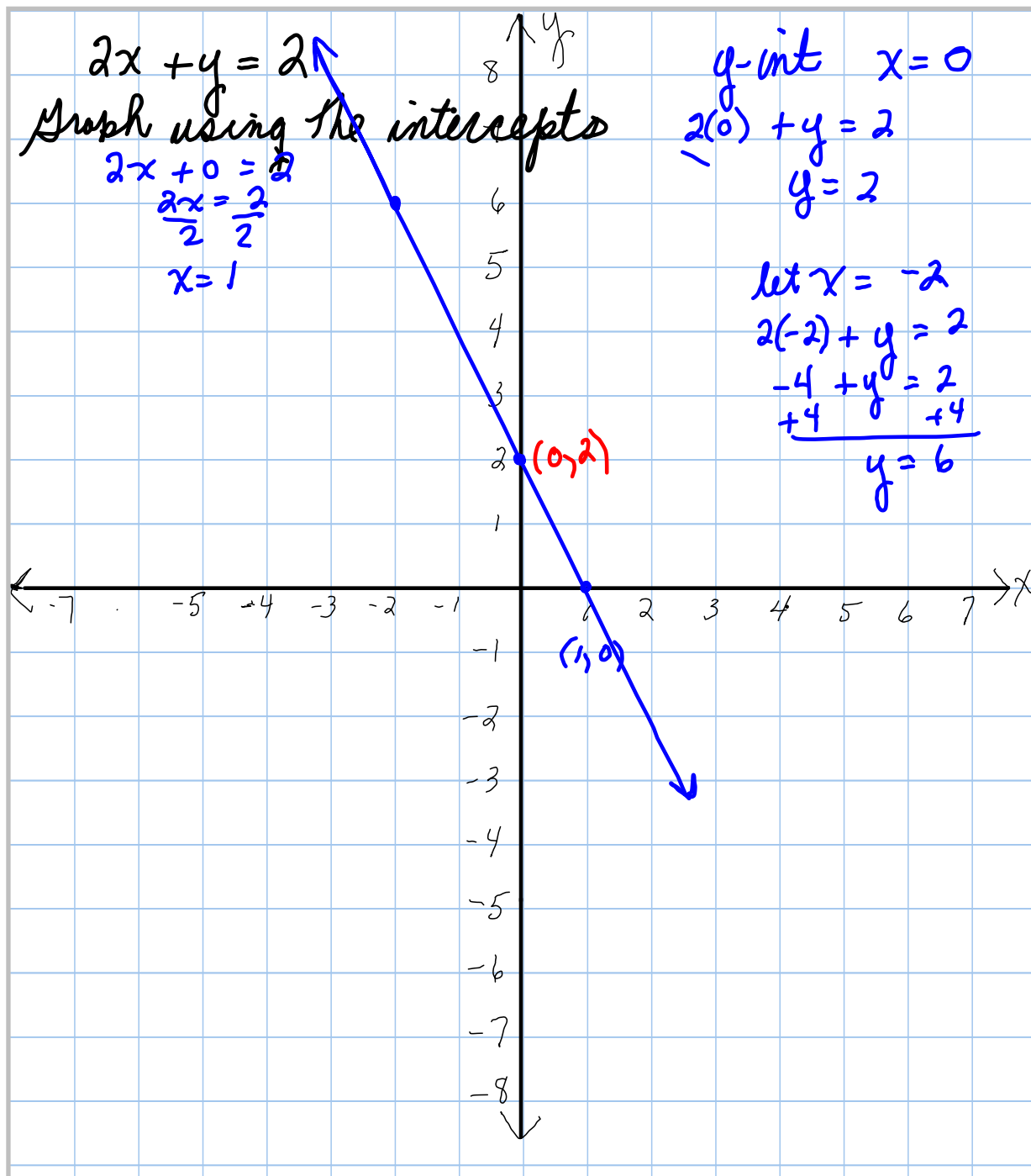
$$\begin{aligned} y &= -\frac{2}{3}\left(\frac{1}{3}\right) + 2 \\ &= 2 + 2 \\ &= 4 \end{aligned}$$



3.4 More on Graphing

② Find the x and y -intercepts





3.5

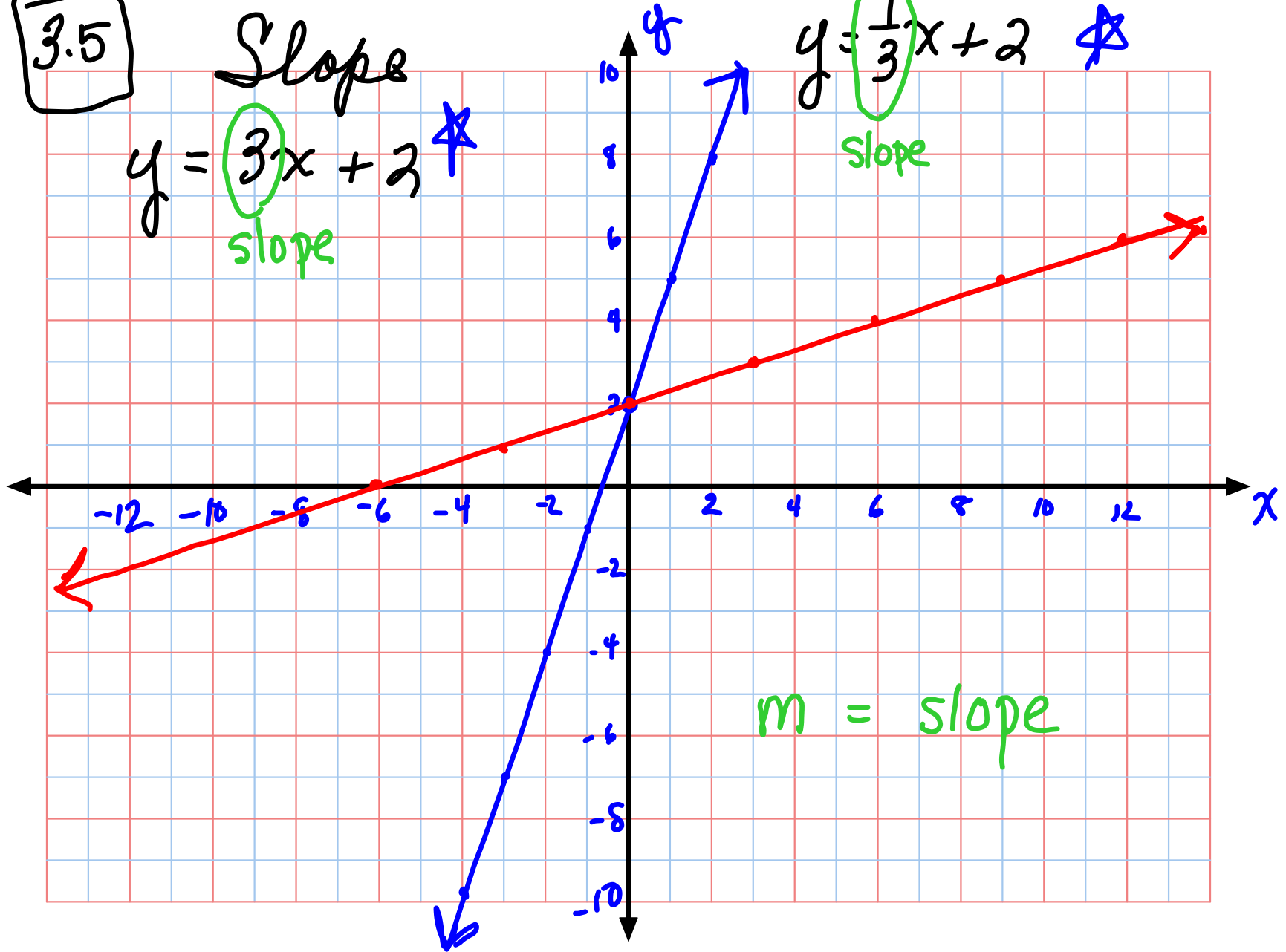
Slope

$$y = 3x + 2$$

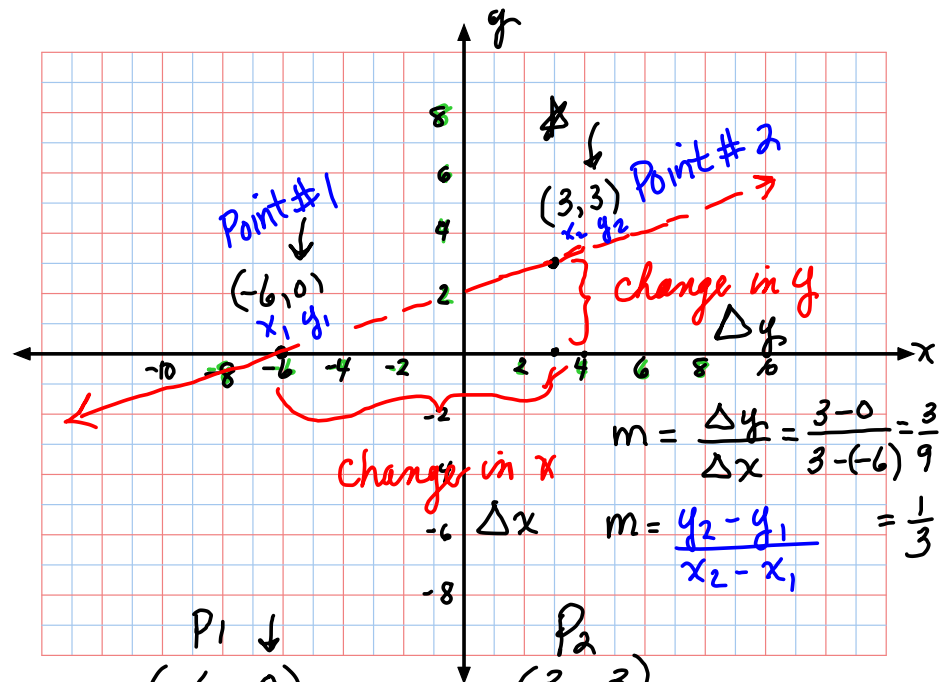
slope

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

slope



$$m = \text{slope}$$



$P_1 \downarrow (-6, 0)$
 $P_2 \nearrow (3, 3)$

$$m = \frac{3-0}{3-(-6)} = \frac{3}{3+6} = \frac{3}{9} = \frac{1}{3}$$

$$m = \frac{0-3}{-6-3} = \frac{-3}{-9} = \frac{1}{3}$$

$m = \frac{\Delta y}{\Delta x} = \frac{1}{3}$

