

30

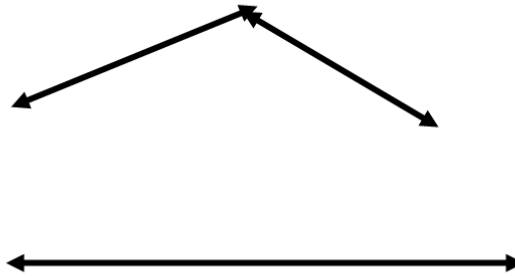
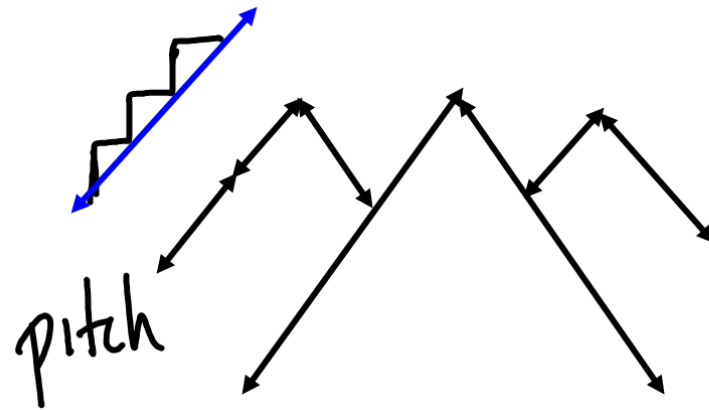
	x Games	y \$	
	0	5	
10<	10	7.50	> 2.50
10<	20	10	> 2.50
10<	30	12.50	> 2.50

$$y = mx + b$$

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

$$m = \frac{2.50}{10}$$

5.2 Slope



$$\frac{3}{100}$$

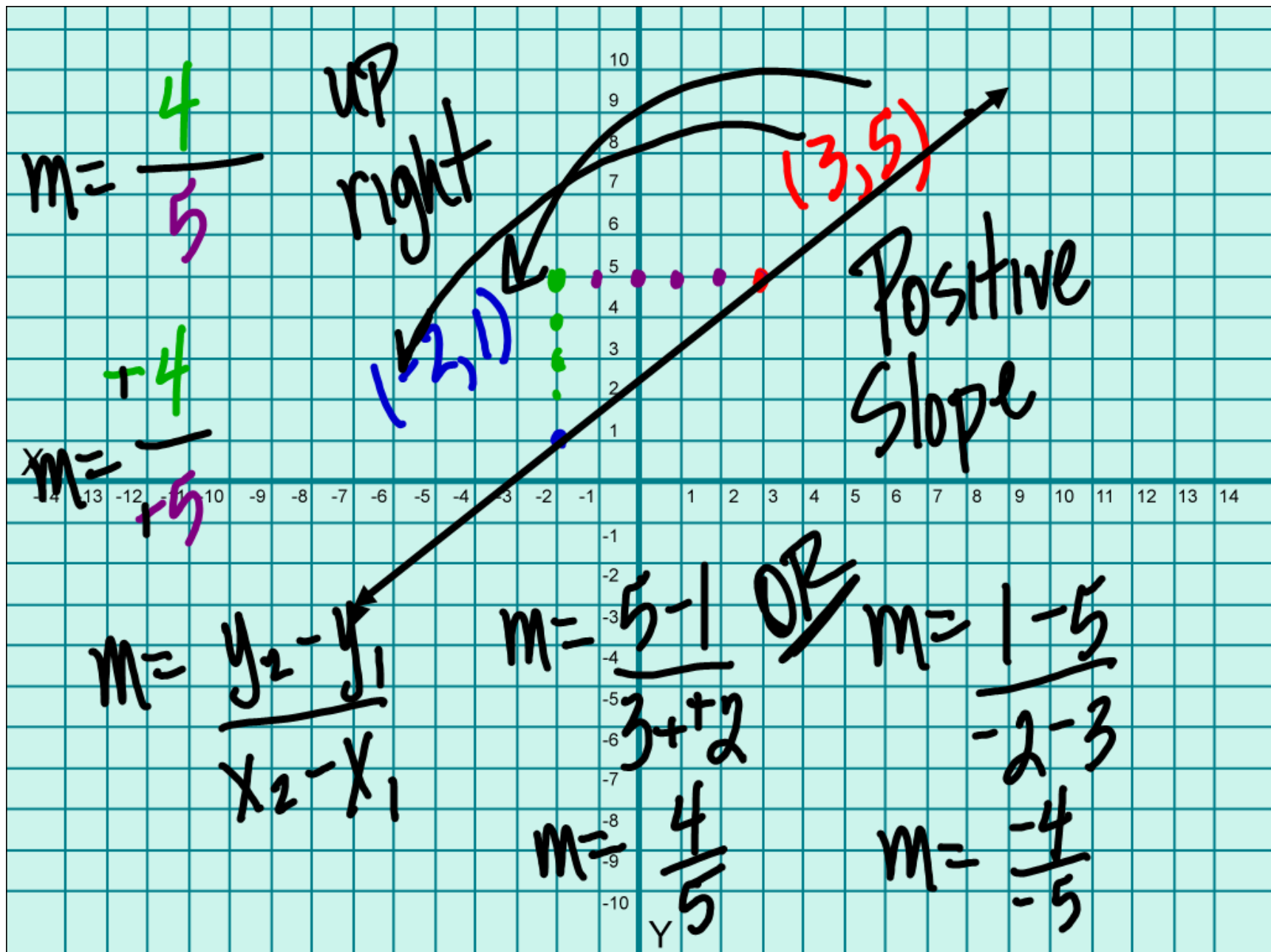
Slope $\frac{\text{rise}}{\text{run}}$

• • $\frac{\text{vertical change}}{\text{horizontal change}}$

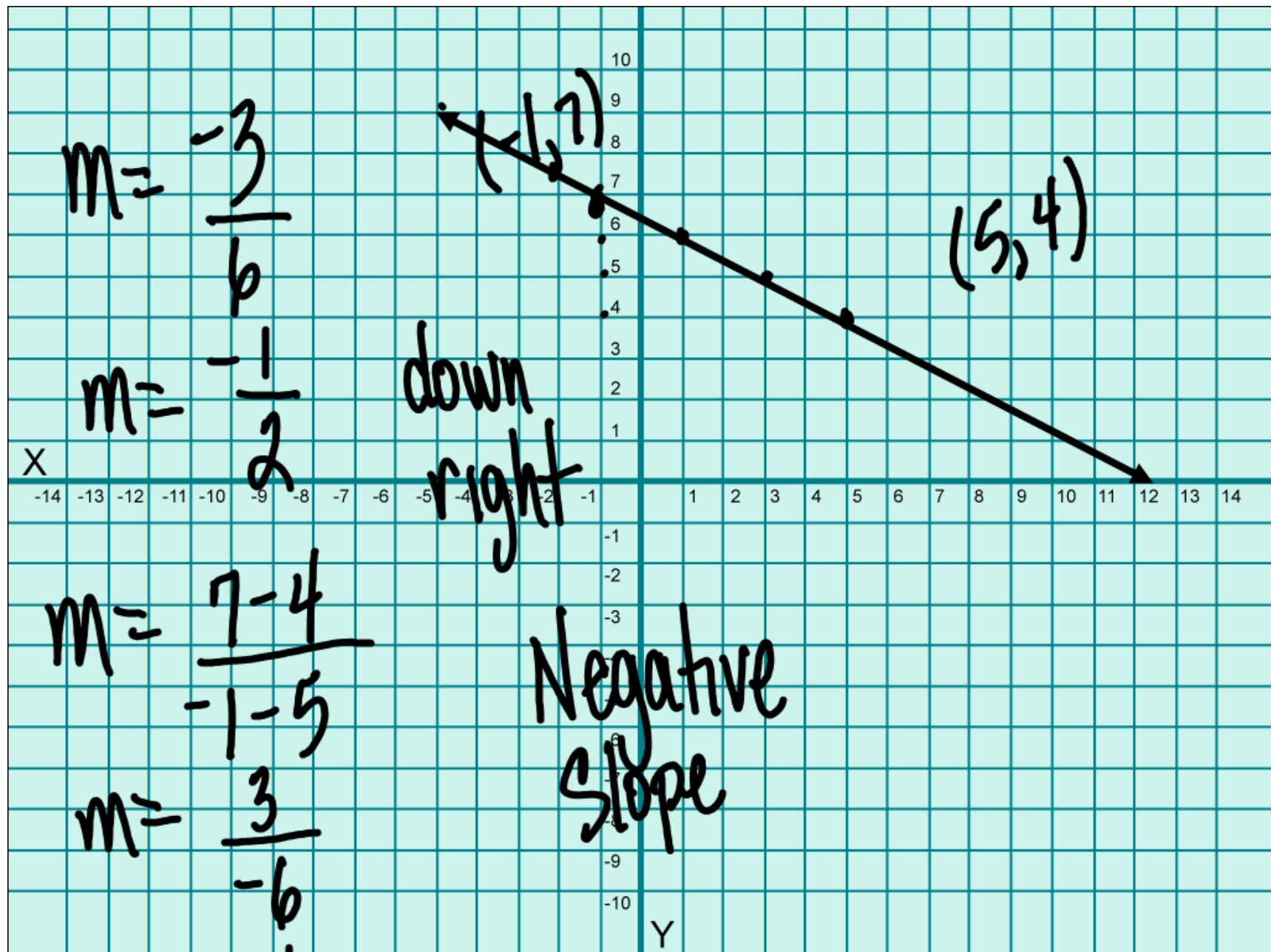
$$\begin{array}{l} (x_1, y_1) \\ (x_2, y_2) \end{array} m = \frac{\text{difference of } y\text{'s}}{\text{difference of } x\text{'s}} = \frac{y_2 - y_1}{x_2 - x_1}$$

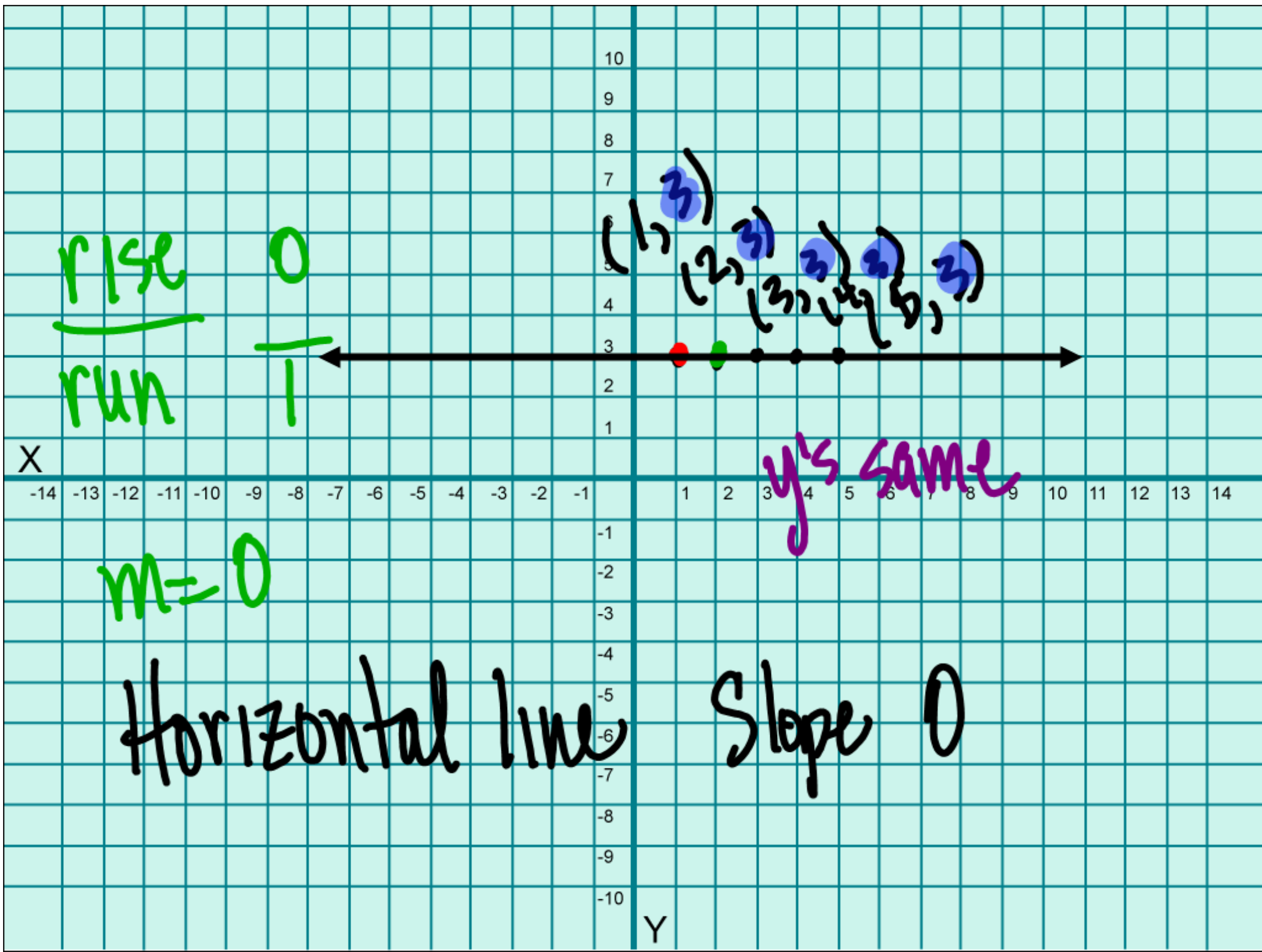
$$\begin{array}{l} (3, 1) \\ (2, -6) \end{array} m = \frac{-6 - 1}{2 - 3} = \frac{-7}{-1} = 7$$

$$m = \frac{1 + 6}{3 - 2} = \frac{7}{1} = 7$$



$m = \frac{4}{5}$

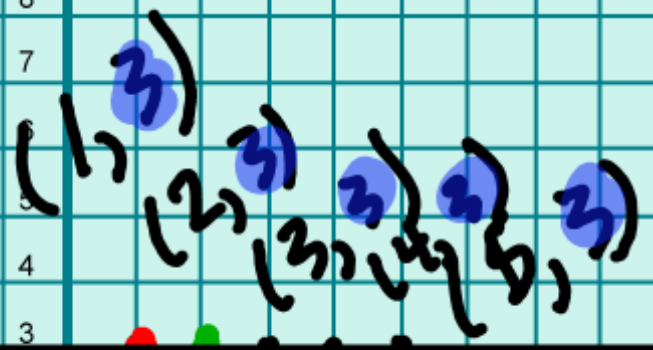




$$\frac{\text{rise}}{\text{run}} = \frac{0}{1}$$

$$m = 0$$

Horizontal line Slope 0



y's same

$$\frac{\text{rise}}{\text{run}} = \frac{4}{0}$$

x is same

(4, 5)

(4, 1)

X

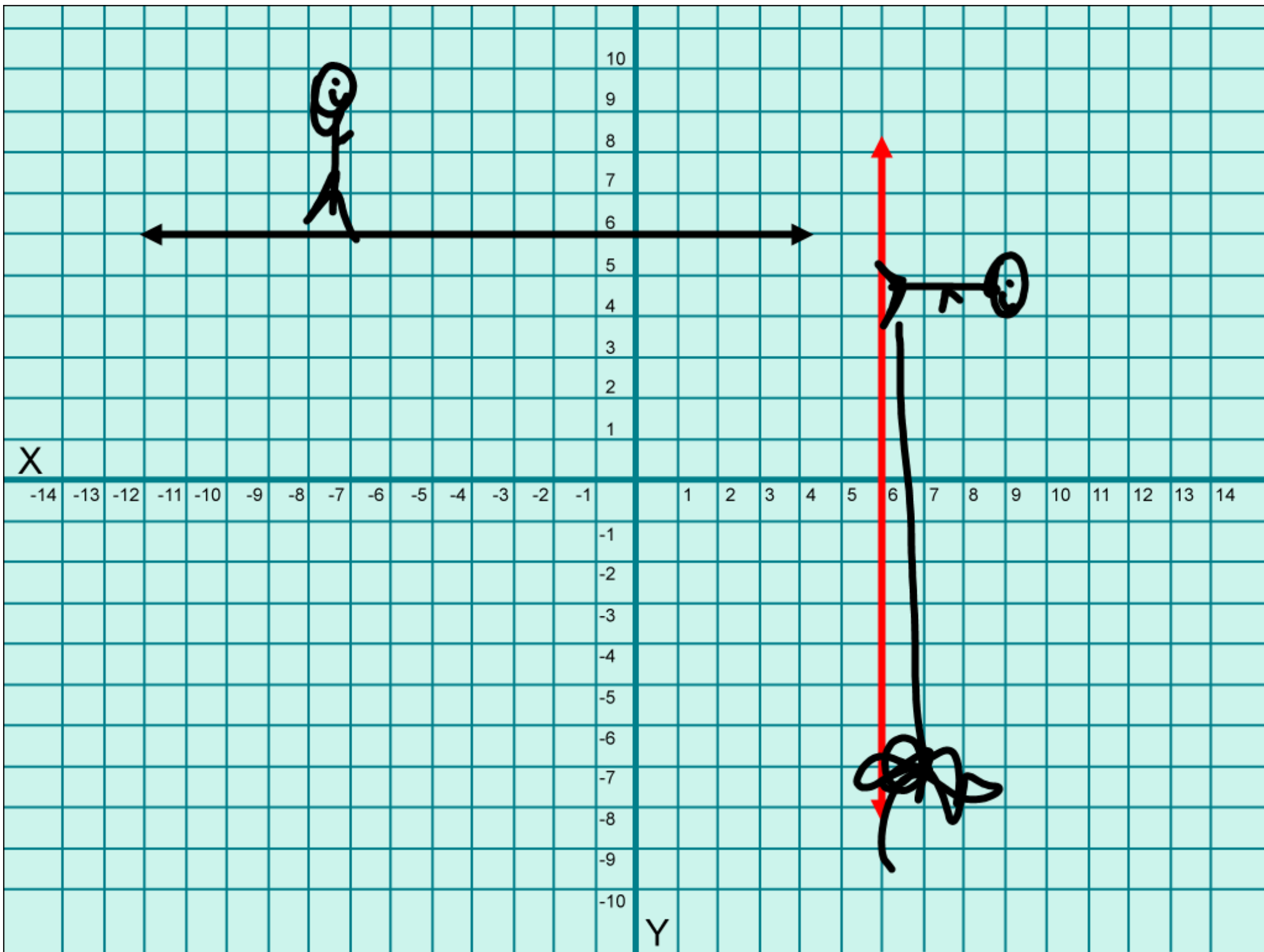
-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14

undefined
vertical line

slope
undefined

10
9
8
7
6
5
4
3
2
1
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10

Y



p231

12-40 E

46 2 pictures

$\frac{6}{5}$