

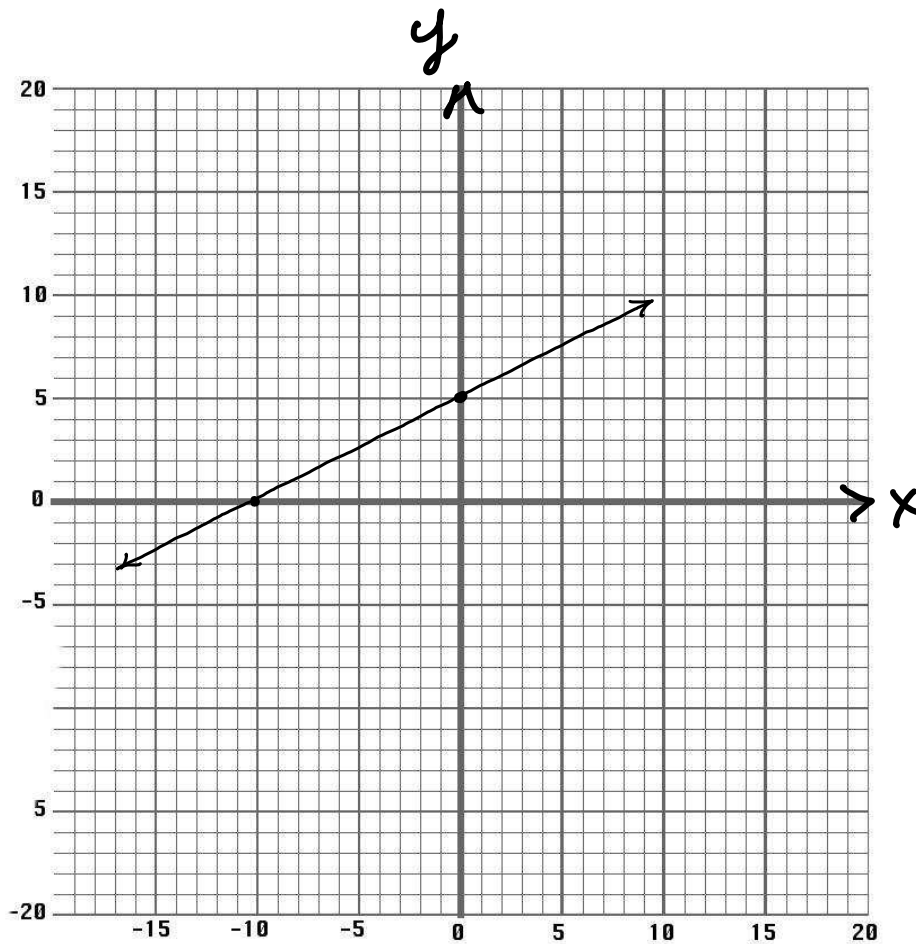
# Slope of a Line

## Overview of problems- KEY



Example Set: A

Use a graph of a line to estimate its slope





## Example Set: B

Find the slope of a line given two of its points

$$(3, 0), (-7, 1)$$

$$(-3, 5), (10, 2)$$

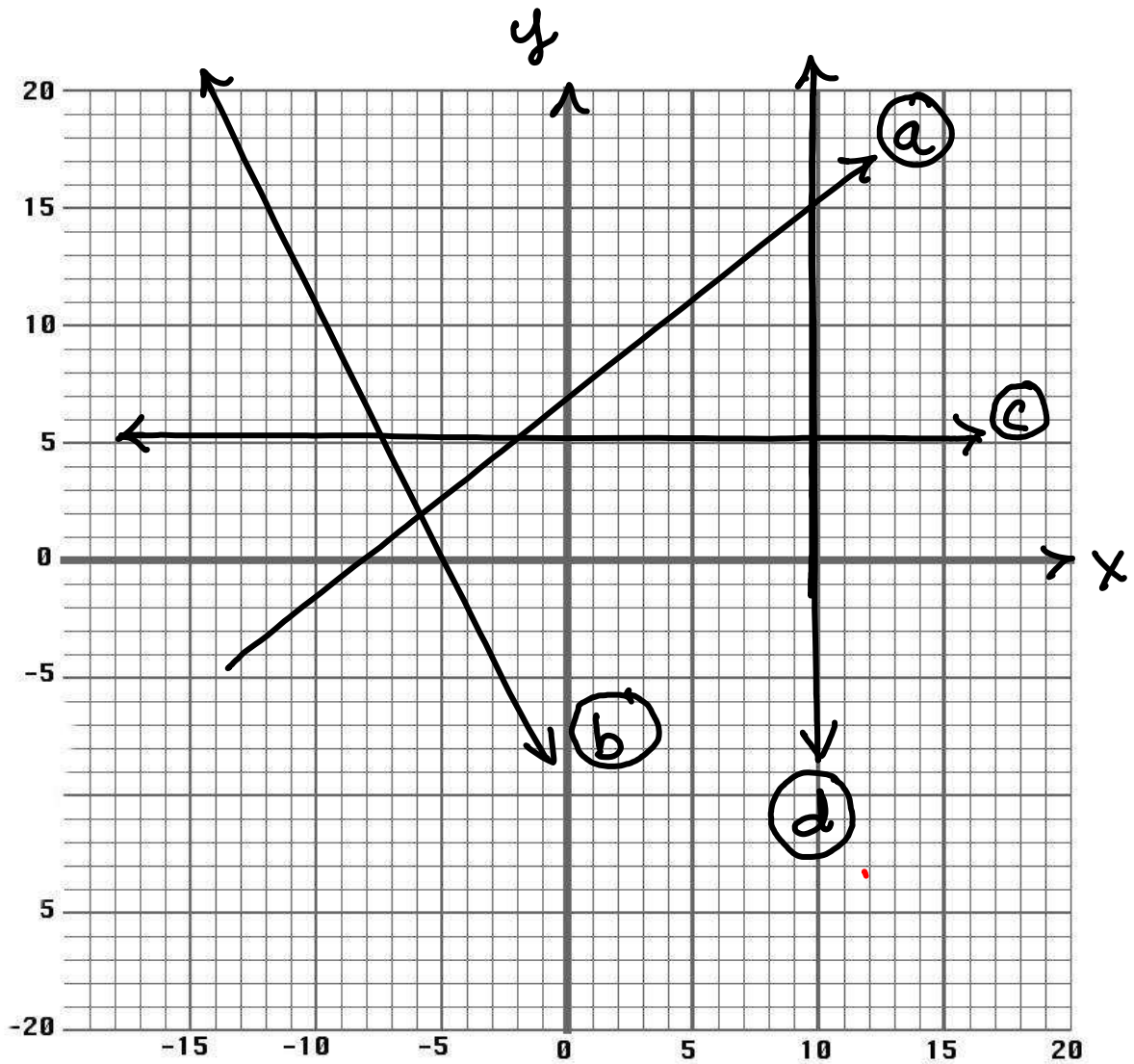
$$(4, 1), (8, 0)$$

$$(-6, -9), (-4, 5)$$



### Example Set: C

Use the graph of the line to determine if the slope is positive, negative, zero or undefined

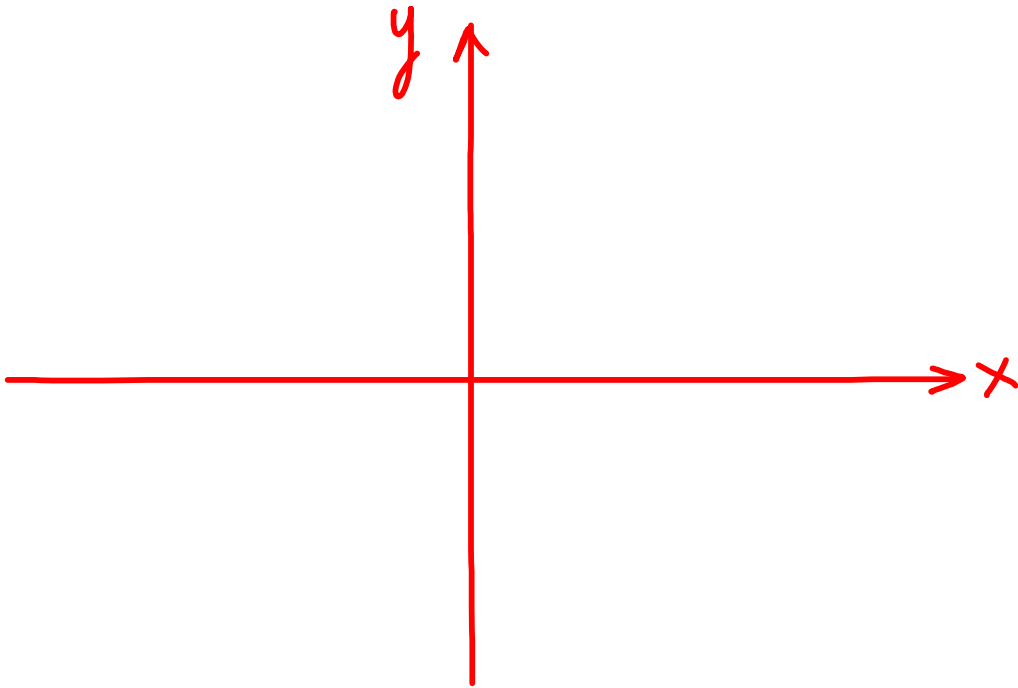




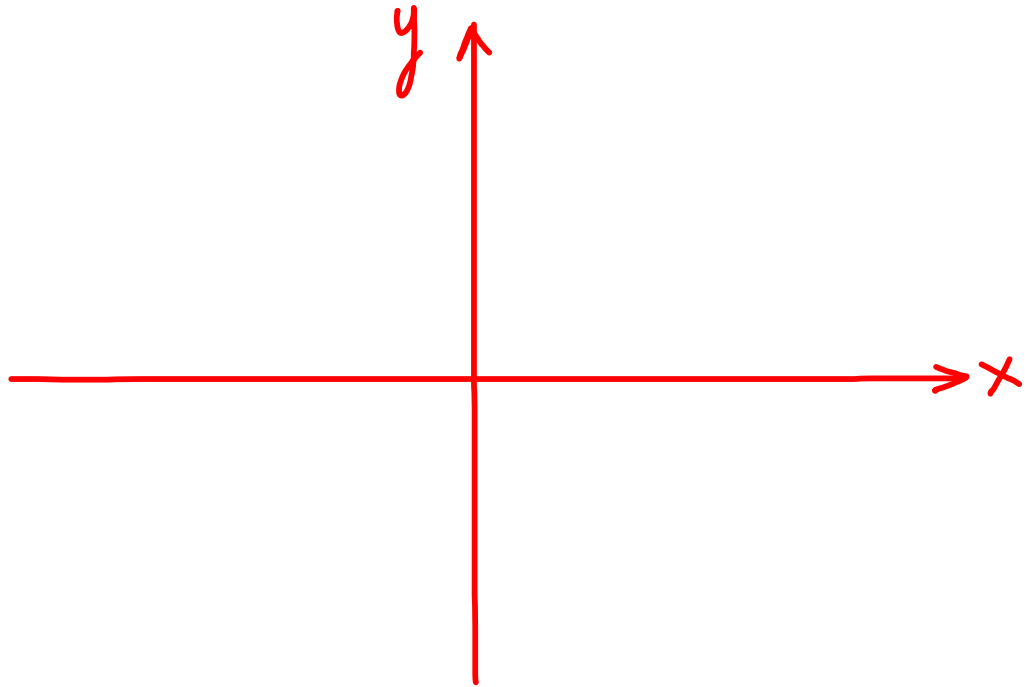
Example Set: D

Sketch a line given it's slope and one point that is one the line

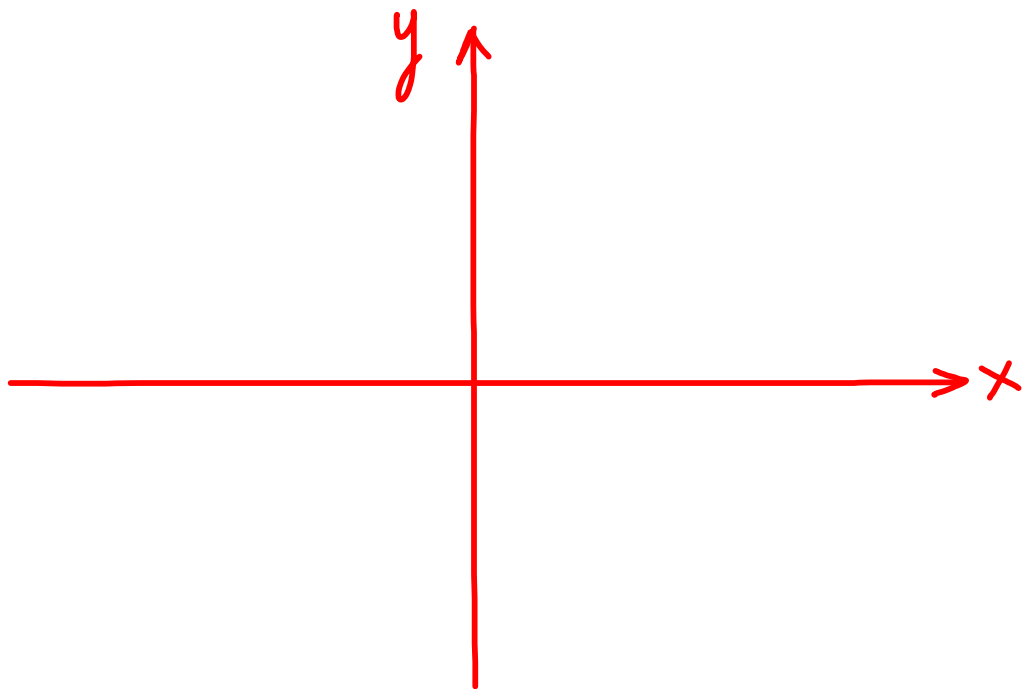
$$m = \frac{2}{3} \quad (4, 1)$$



$$m = -1/2 \quad (0, -3)$$



$$m = 4 \quad (-2, 5)$$





## Example Set: E

Find the rate of change between two points given the units of measure

$(5 \text{ yrs}, 30 \text{ inches}), (20 \text{ yrs}, 64 \text{ inches})$

$(2003, \$19,000^{\text{m}}), (2007, \$14,000^{\text{m}})$

$(500^{\circ}\text{F}, 600 \text{ psi}), (720^{\circ}\text{F}, 850 \text{ psi})$

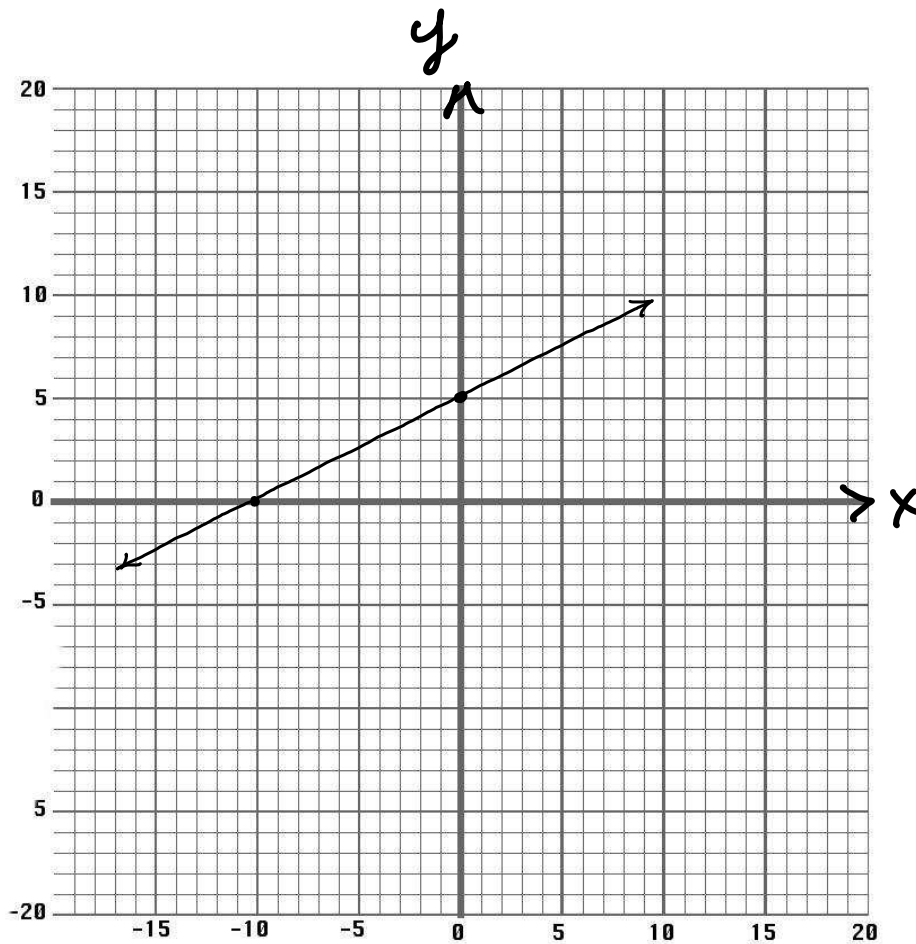
# Slope of a Line

## Overview of problems- KEY



Example Set: A

Use a graph of a line to estimate it's slope



$$m = \frac{1}{2}$$



## Example Set: B

Find the slope of a line given two of its points

$$(3, 0), (-7, 1)$$

$$m = -\frac{1}{10}$$

$$(-3, 5), (10, 2)$$

$$m = -\frac{3}{13}$$

$$(4, 1), (8, 0)$$

$$m = -\frac{1}{4}$$

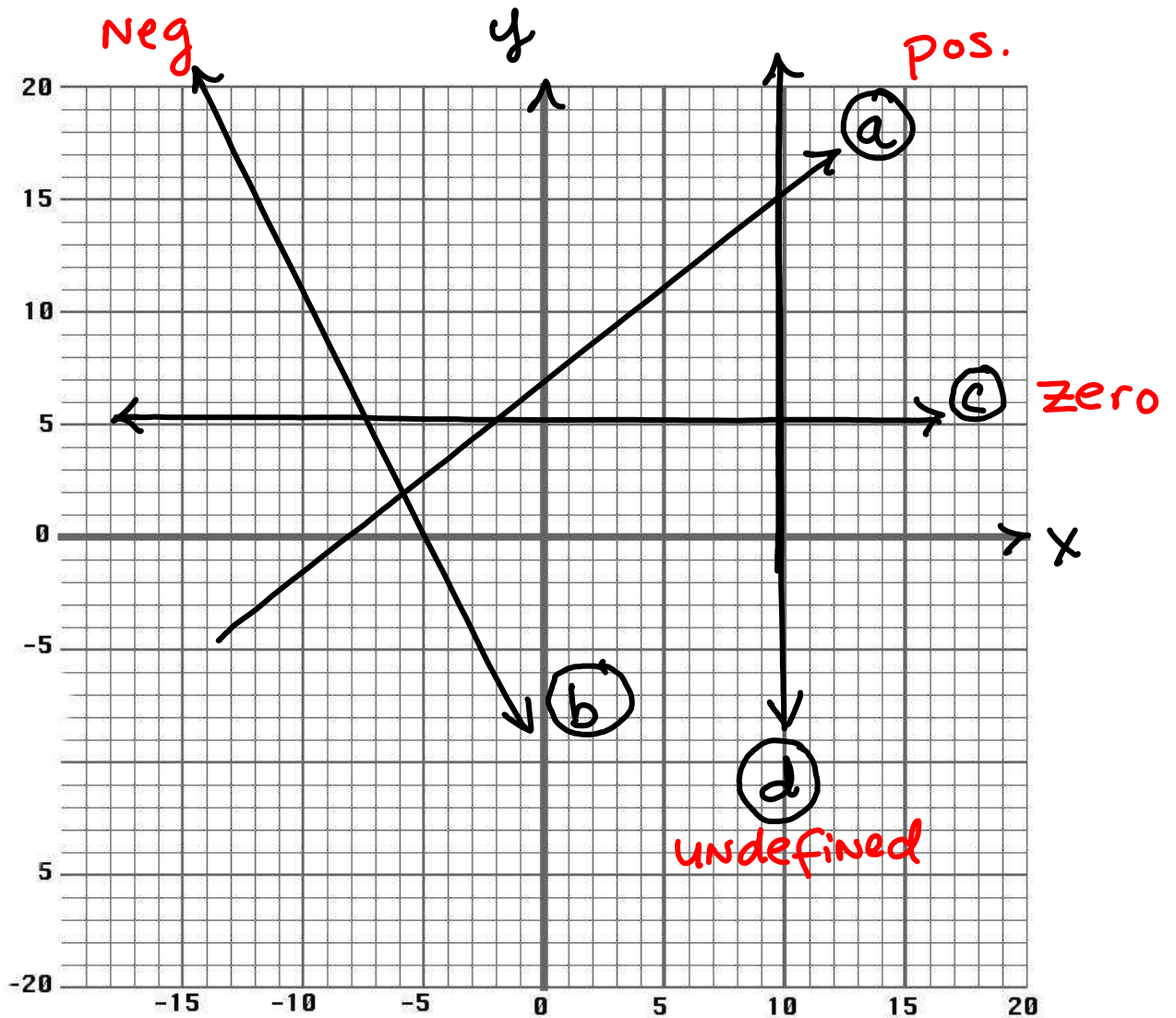
$$(-6, -9), (-4, 5)$$

$$m = 7$$



## Example Set: C

Use the graph of the line to determine if the slope is positive, negative, zero or undefined

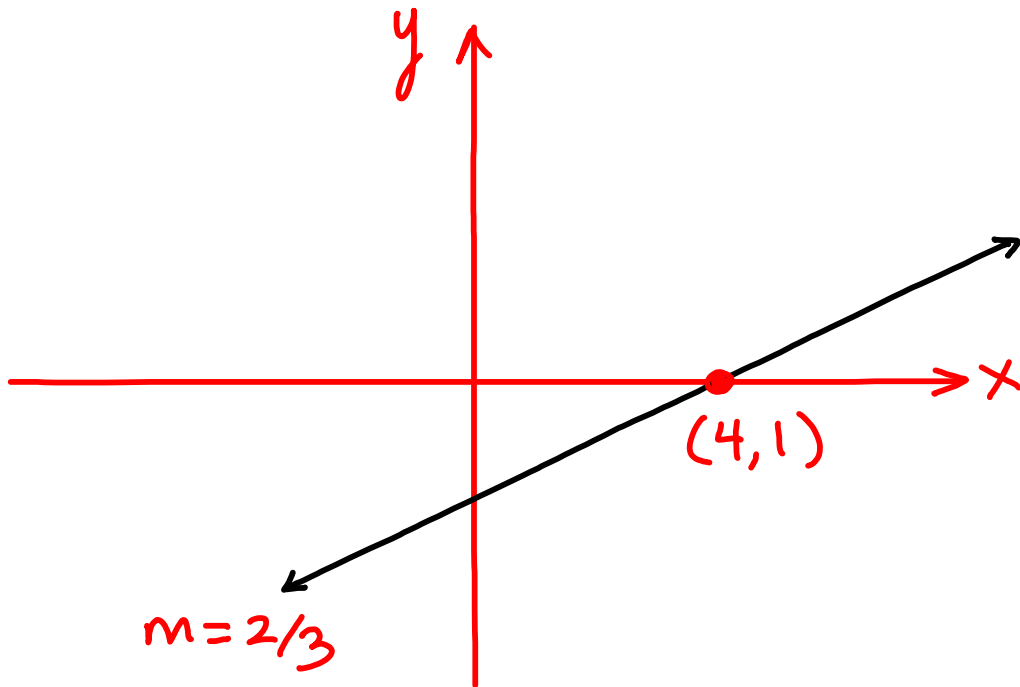




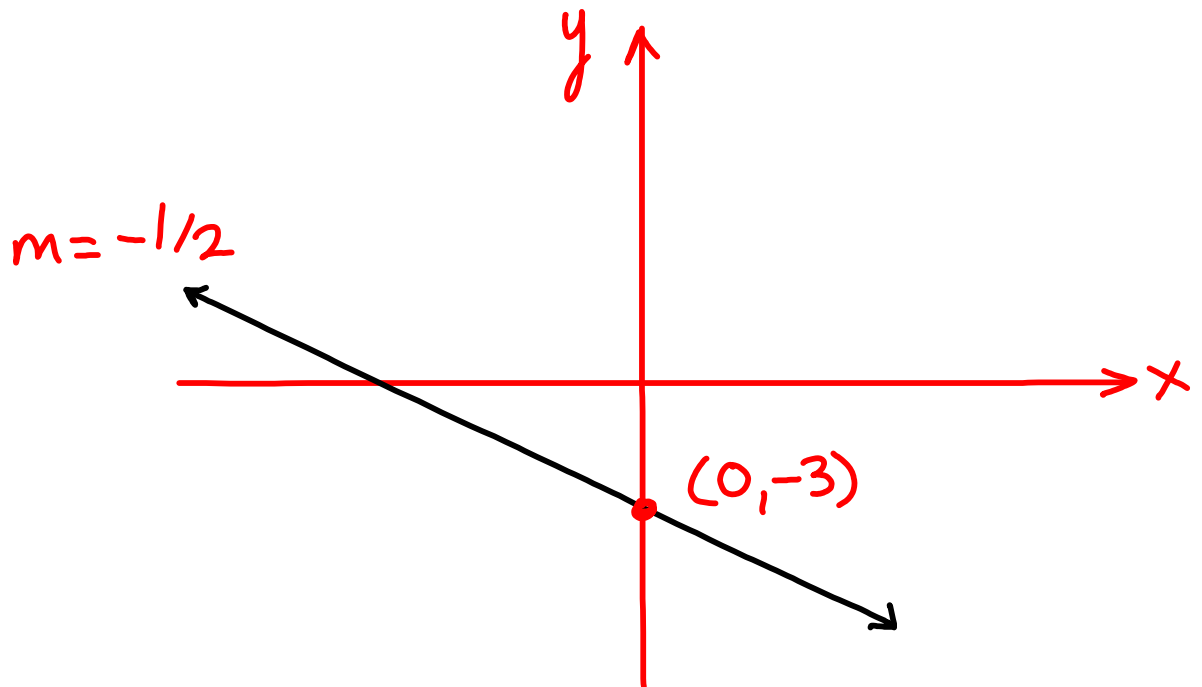
## Example Set: D

Sketch a line given it's slope and one point that is one the line

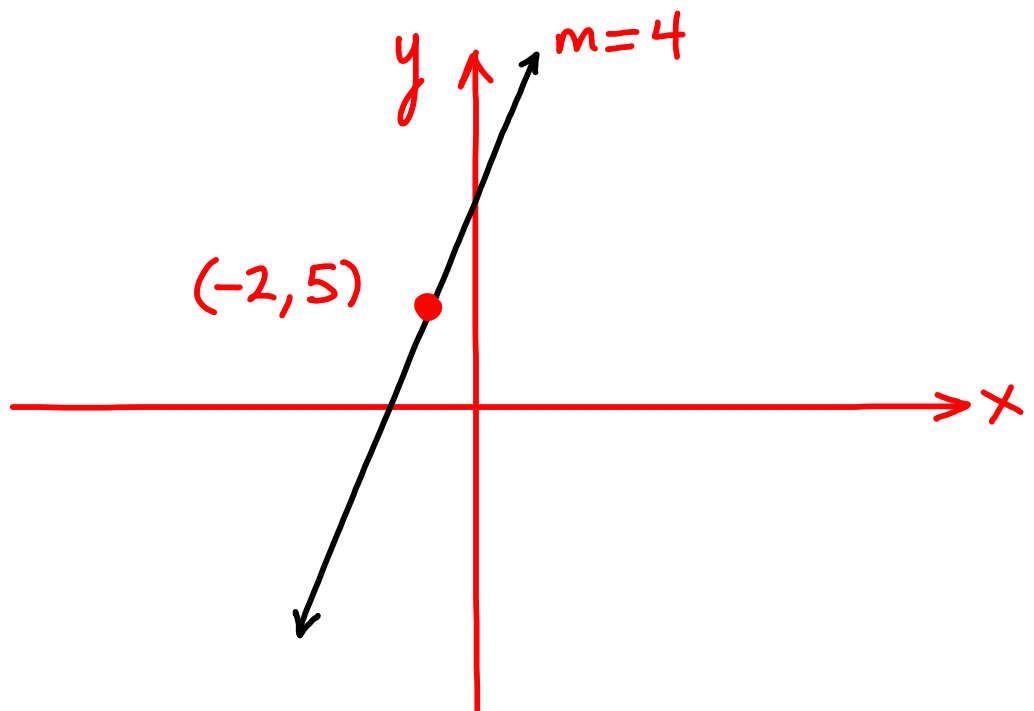
$$m = \frac{2}{3} \quad (4, 1)$$



$$m = -1/2 \quad (0, -3)$$



$$m = 4 \quad (-2, 5)$$





## Example Set: E

Find the rate of change between two points given the units of measure

(5 yrs, 30 inches), (20 yrs, 64 inches)

$$\frac{34 \text{ inches}}{15 \text{ yards}} = 2.26 \text{ in/yrds}$$

(2003, \$19,000<sup>00</sup>), (2007, \$14,000<sup>00</sup>)

$$- \$1250 / \text{year}$$

(500°F, 600 psi), (720°F, 850 psi)

$$1.13 \text{ psi} / \text{F}^\circ$$