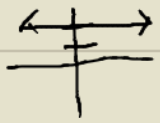
SLOPE

$$m = \frac{\text{CHANGE IN } y}{\text{CHANGE IN } x}$$

m IS POS.

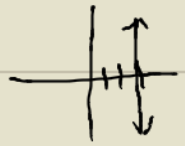
m IS NEG

m = 0



$y = 2$

m IS UNDEFINED



$X = 3$

0 / 3

$m = \frac{0}{7}$

$m = 0$

0 / 2

$m = \frac{3}{0}$

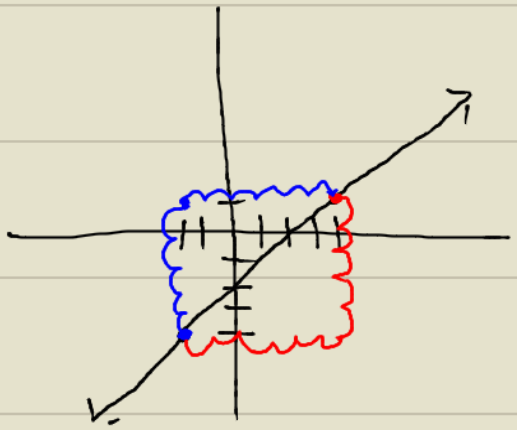
m IS UNDEFINED

GIVEN 2 POINTS

(x_1, y_1) (x_2, y_2)

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

1.



$$m = \frac{\text{CHANGE IN } y}{\text{CHANGE IN } x}$$

$= \frac{-5}{-6}$ DOWN 5 / LEFT 6

$= \frac{5}{6}$

$= \frac{5}{6}$ UP 5 / RIGHT 6

2. (3, 5) (−5, −7)

$m = \frac{-12}{-8}$ DOWN 12 / LEFT 8

$= \frac{12}{8}$

$m = \frac{3}{2}$