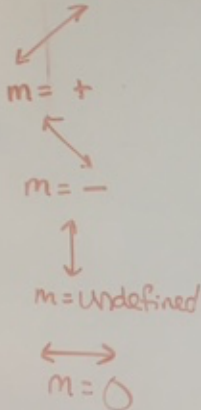
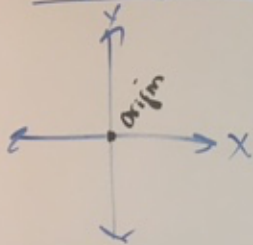


Linear Notes

line, straight

graph



point (x, y)

constant rate of change
Slope = $\frac{\text{rise}}{\text{run}}$

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

equation

$$y = mx + b$$

slope

Starting point
y-intercept

$$y_2 - y_1 = m(x_2 - x_1)$$

Revise pretest
or
Station Practice
or
Notes

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Ms.
Ms.
Mr.
Ms.

Write equation of a line that passes through points $(1, 2)$

$(3, 4)$
 x_2, y_2

$$y = mx + b$$

$$m = \frac{4 - 2}{3 - 1} = \frac{2}{2} = 1$$

$$y = mx + b$$
$$2 = (1)(1) + b$$
$$2 = 1 + b$$

$$1 = b$$

$$y = 1x + 1 \Rightarrow y = x + 1$$