

Prerequisite Knowledge

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0.1 Pre Chapter 2

0.1.1 Definitions

- Gradient: Measure of the slope
- Tangent Line: A line that touches at **a single point**
- Secant Line: A line that touches at **2 points**

0.1.2 Theorems

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

Slope Intercept Form $\rightarrow y = mx + b$

Point Slope Form: $y - y_1 = m(x - x_1)$

0.1.3 Equation of a line

To find the equation of a line, we first have to find a couple things,

- Find slope
- Identify Two Points
- Identify y-int

Equation $\rightarrow y = mx + b$

Where m is slope and b is y-int