

# Prerequisite Knowledge

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## 0.1 Pre Chapter 2

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### 0.1.1 Definitions

- Gradient: Measure of the slope
- Tangent line: a line that touches at a single point

### 0.1.2 Theorems

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

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

### 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