

Summary of Calculus I

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1 Limits

- 1.1. A tangent line is a line that touches a curve, and has the same slope as the curve at the point of contact.
- 1.2. The average rate of change of a function $f(x)$ between $x = a$ and $x = b$ is

$$\frac{f(b) - f(a)}{b - a}.$$