

Calculus Limit Cheat Sheet

Calculus with Rebecca

Introduction to Limits

Definition: A limit describes the value that a function $f(x)$ approaches as x approaches a certain point. If $f(x)$ gets arbitrarily close to a number L as x approaches a , then we write:

$$\lim_{x \rightarrow a} f(x) = L$$

One-Sided Limits

Left-Hand Limit:

$$\lim_{x \rightarrow a^-} f(x)$$

Right-Hand Limit:

$$\lim_{x \rightarrow a^+} f(x)$$

If both one-sided limits exist and are equal, then the two-sided limit exists.

Infinite Limits

Definition: If $f(x)$ increases or decreases without bound as x approaches a , then:

$$\lim_{x \rightarrow a} f(x) = \infty \quad \text{or} \quad \lim_{x \rightarrow a} f(x) = -\infty$$

Limits at Infinity

Definition: Describes the behavior of $f(x)$ as x becomes very large (positive or negative):

$$\lim_{x \rightarrow \infty} f(x) = L \quad \text{or} \quad \lim_{x \rightarrow -\infty} f(x) = L$$

Horizontal Asymptotes

A function $f(x)$ has a horizontal asymptote at $y = L$ if:

$$\lim_{x \rightarrow \infty} f(x) = L \quad \text{or} \quad \lim_{x \rightarrow -\infty} f(x) = L$$

Special Trigonometric Limits

$$\lim_{x \rightarrow 0} \frac{\sin(x)}{x} = 1, \quad \lim_{x \rightarrow 0} \frac{1 - \cos(x)}{x} = 0$$

$$\lim_{x \rightarrow 0} \frac{\tan(x)}{x} = 1, \quad \lim_{x \rightarrow 0} \frac{\sin(ax)}{x} = a$$

Limit Laws

$$\lim_{x \rightarrow a} [f(x) + g(x)] = \lim_{x \rightarrow a} f(x) + \lim_{x \rightarrow a} g(x)$$

$$\lim_{x \rightarrow a} [f(x) - g(x)] = \lim_{x \rightarrow a} f(x) - \lim_{x \rightarrow a} g(x)$$

$$\lim_{x \rightarrow a} [f(x) \cdot g(x)] = \lim_{x \rightarrow a} f(x) \cdot \lim_{x \rightarrow a} g(x)$$

$$\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)}$$

$$\lim_{x \rightarrow a} [c \cdot f(x)] = c \cdot \lim_{x \rightarrow a} f(x)$$

Note: Quotient Law requires $\lim_{x \rightarrow a} g(x) \neq 0$.

Indeterminate Forms and L'Hôpital's Rule

Indeterminate forms: $\frac{0}{0}$, $\frac{\infty}{\infty}$, $0 \cdot \infty$, $\infty - \infty$, 0^0 , ∞^0 , 1^∞
L'Hôpital's Rule:

$$\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \lim_{x \rightarrow a} \frac{f'(x)}{g'(x)} \quad (\text{if } \lim_{x \rightarrow a} \frac{f(x)}{g(x)} \text{ is of form } \frac{0}{0} \text{ or } \frac{\infty}{\infty})$$

Squeeze Theorem

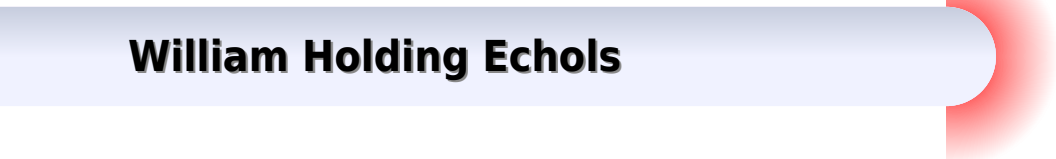
If $g(x) \leq f(x) \leq h(x)$ for all x near a (except possibly at a), and

$$\lim_{x \rightarrow a} g(x) = \lim_{x \rightarrow a} h(x) = L,$$

then $\lim_{x \rightarrow a} f(x) = L$.

Calculus Lan 1 Limit

William Holding Echols



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