

Calc 1 Formula Sheet

Ch 1: Limits and Continuity

What is a Limit?

The value a function gets closer and closer to as the input approaches a certain number

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

(as x approaches a , $f(x)$ approaches L)

Types of Limits

- **Two-Sided Limit** - x approaches from both sides
 - If one side $\rightarrow +\infty$ and the other $\rightarrow -\infty$, the limit does not exist

One-Sided Limits

- Left-hand: $\lim_{x \rightarrow a^-} f(x)$
 - Right-hand: $\lim_{x \rightarrow a^+} f(x)$

What is a Discontinuity?

A discontinuity is a point where a function is not continuous

Criteria to be Continuous

- To be continuous at $x=a$, 3 conditions must hold:
 1) $f(a)$ is defined 2) $\lim_{x \rightarrow a} f(x)$ exists 3) $\lim_{x \rightarrow a} f(x) = f(a)$
 - If any of these fail \rightarrow discontinuity

Ch 2: Derivatives

What is a Derivative?

The derivative tells you the instantaneous rate of change of the function at that exact point

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$



Geometric meaning: Slope of the tangent line.

When Derivatives Do NOT Exist

- 1) Sharp corners (eg $|x|$ at $x=0$)
- 2) Vertical tangent (slope is infinite)
- 3) Discontinuity

How to Evaluate Limits

(The steps to calculate the $\lim f(x)$)



Types of Discontinuities

- 1) **Removable Discontinuity** - A single point (hole) where the limit exists but $f(x)$ is missing or different.
- 2) **Jump Discontinuity** - Left and right hand limits exist but are different.
- 3) **Infinite Discontinuity** - Function approaches $\pm\infty$ at a .



Fundamental Rules of Derivatives

- 1) Constant Rule: $\frac{d}{dx}[c] = 0$
- 2) Power Rule: $\frac{d}{dx}[x^n] = nx^{n-1}$
- 3) Constant Multiple Rule: $\frac{d}{dx}[c \cdot f(x)] = c \cdot f'(x)$
- 4) Sum/Difference Rule: $\frac{d}{dx}[f(x) \pm g(x)] = f'(x) \pm g'(x)$
- 5) Product Rule: $\frac{d}{dx}[f(x)g(x)] = f'(x)g(x) + f(x)g'(x)$
- 6) Quotient Rule: $\frac{d}{dx}\left[\frac{f(x)}{g(x)}\right] = \frac{g(x)f'(x) - f(x)g'(x)}{[g(x)]^2}$
- 7) Chain Rule: $h'(x) = f'(g(x)) \cdot g'(x)$

What is an Asymptote?

An asymptote is a line that a graph gets closer and closer to, but never actually touches.

Limits at Infinity & Infinite Limits

1. **Infinite Limits (Vertical Asymptotes)**
 - When $f(x) \rightarrow \infty$ or $-\infty$ as x approaches a .
 Ex: $\lim_{x \rightarrow 0^+} \frac{1}{x} = \infty$ tells you there's a VA at $x=0$.
2. **Limits at Infinity (Horizontal Asymptotes)**
 - When $x \rightarrow \infty$ or $-\infty$, look at the end behavior.
 Ex: $\lim_{x \rightarrow \infty} \frac{2x^2 + 3}{x^2 + 1} = 2$ tells you there's a HA at $y=2$.

Shortcut: L'Hopital's Rule

Take the derivative of the numerator and denominator of an indeterminate form.

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

- Then recalculate the new limit.

Shortcut for Rational Functions

Let n = degree of numerator, m = degree of denominator

- IF $n < m \rightarrow$ limit = 0 (HA: $y=0$)
- IF $n = m \rightarrow$ limit = ratio of leading coefficients
- IF $n > m \rightarrow$ limit $\rightarrow \infty$ or $-\infty$ (no HA)

Derivatives of Common Functions

(You should have these memorized completely)

- **Trig functions**
- $\frac{d}{dx}[\sin(x)] = \cos(x)$
 - $\frac{d}{dx}[\cos(x)] = -\sin(x)$
 - $\frac{d}{dx}[\tan(x)] = \sec^2(x)$
 - $\frac{d}{dx}[\sec(x)] = \sec(x)\tan(x)$
 - $\frac{d}{dx}[\csc(x)] = -\csc(x)\cot(x)$
 - $\frac{d}{dx}[\cot(x)] = -\csc^2(x)$

Exponential and Log functions

- $\frac{d}{dx}[e^x] = e^x$
- $\frac{d}{dx}[\ln(x)] = \frac{1}{x}$
- $\frac{d}{dx}[a^x] = a^x \ln(a)$
- $\frac{d}{dx}[\ln_a(x)] = \frac{1}{x \ln(a)}$

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**William Briggs,Lyle Cochran,Bernard
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