

AP CALC AB FORMULA STUDY GUIDE

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Properties of Limits

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

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

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

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

$$\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)} \quad \text{if } \lim_{x \rightarrow a} g(x) \neq 0$$

$$\lim_{x \rightarrow a} [f(x)]^n = \left[\lim_{x \rightarrow a} f(x) \right]^n$$

$$\lim_{x \rightarrow a} \sqrt[n]{f(x)} = \sqrt[n]{\lim_{x \rightarrow a} f(x)}$$

Direct Substitution Property

If f is a polynomial or a rational function and a is in the domain of f , then $\lim_{x \rightarrow a} f(x) = f(a)$.

Theorem

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

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

The Squeeze Theorem

Given $f(x) \leq g(x) \leq h(x)$ for values of x near a , except possibly at a . If $\lim_{x \rightarrow a} f(x) = \lim_{x \rightarrow a} h(x) = L$,

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



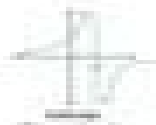
Continuity

f is continuous at a number a , if (i) $f(a)$ is defined

$$(ii) \lim_{x \rightarrow a} f(x) \text{ exists}$$

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

Discontinuities



Vertical Asymptote(s) of f

The line $x = a$ is a vertical asymptote of $y = f(x)$ if at least one of the following statements is true:

$$\lim_{x \rightarrow a^-} f(x) = \infty \quad \lim_{x \rightarrow a^+} f(x) = \infty$$

$$\lim_{x \rightarrow a^-} f(x) = -\infty \quad \lim_{x \rightarrow a^+} f(x) = -\infty$$

$$\lim_{x \rightarrow a^-} f(x) = \infty \quad \lim_{x \rightarrow a^+} f(x) = -\infty$$

$$\lim_{x \rightarrow a^-} f(x) = -\infty \quad \lim_{x \rightarrow a^+} f(x) = \infty$$

Indefinite Limits

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

- If $f(x)$ is a growth factor, the limit is ∞ .
- If $g(x)$ is a growth factor, the limit is 0 .
- If $f(x) = 1$ & $g(x) = x$ are polynomials with the same degree, the limit equals the ratio of their leading coefficients.

Horizontal Asymptote(s) of f

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

Intermediate Value Theorem

If f is continuous on $[a, b]$ and M is any number between $f(a)$ and $f(b)$, then there is at least one number c in $[a, b]$ such that $f(c) = M$.



Average Rate of Change of a function $f(x)$ over closed interval $[a, b]$ is

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

Definition of a Derivative

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

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

Not Differentiable



Discontinuity

Corner Point

Vertical Tangent

Differentiation Rules

$$\frac{d}{dx}(c) = 0$$

$$\frac{d}{dx}[c f(x)] = c \frac{d}{dx}[f(x)]$$

$$\frac{d}{dx}[f(x) + g(x)] = \frac{d}{dx} f(x) + \frac{d}{dx} g(x)$$

$$\frac{d}{dx}[f(x) - g(x)] = \frac{d}{dx} f(x) - \frac{d}{dx} g(x)$$

Derivatives

$$\frac{d}{dx}(x^n) = nx^{n-1} \quad \frac{d}{dx}(\sin x) = \cos x$$

$$\frac{d}{dx}(x^n) = x^n \quad \frac{d}{dx}(\cos x) = -\sin x$$

$$\frac{d}{dx}(x^n) = x^n \ln x \quad \frac{d}{dx}(\tan x) = \sec^2 x$$

$$\frac{d}{dx}(\ln x) = \frac{1}{x}$$

Derivatives of Inverse

$$\frac{d}{dx}(\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx}(\cos^{-1} x) = -\frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx}(\tan^{-1} x) = \frac{1}{1+x^2}$$

$$\frac{d}{dx}(f^{-1}(x)) = \frac{1}{f'(f^{-1}(x))}$$

Product Rule

$$\frac{d}{dx} f(x)g(x) = f'(x)g(x) + f(x)g'(x)$$

Quotient Rule

$$\frac{d}{dx} \left(\frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{[g(x)]^2}$$

Chain Rule

$$\frac{d}{dx} f(g(x)) = f'(g(x))g'(x)$$

Linear Approximation / Tangent Line

Linear approximation of f at a is

$$L(x) = f(a) + f'(a)(x - a)$$

Chapters 1 through 4
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Math For Calculus Study Guide

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Math for Calculus James Stewart, John A. Banks, Lothar Redlin, 1993 This thoroughly revised and expanded edition of Stewart Redlin and Watson s successful text provides a modern approach which emphasizes the process of problem solving taking advantage of new technology graphing calculator or computer and treats the basics in a clear and comprehensive way The authors goal is to help students develop their mathematical thinking stressing understanding over mimicry of techniques The tone examples and explanations all support full understanding of the material

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Calculus Study Guide, Solutions to Problems from Past Tests and Exams Sergio Da Silva, Joshua Seaton, 2015-08-09 Written by current PhD students in mathematics this calculus study guide contains detailed step by step solutions to problems from past tests and exams at the University of Toronto Based on the MAT 137 course this handbook was written with the student in mind While the problems originate from U of T the material is easily comparable to any introductory university calculus course that has a focus on proofs For a lighter approach see the MAT 135 136 guide After being teaching assistants for calculus courses over several years Joshua and Sergio found students constantly asking about solutions from other help manuals The solutions were either wrong or poorly explained They saw the need for a more comprehensive solution manual that explained every step in detail Before beginning their PhDs at Columbia and Cornell University respectively they wrote this study guide to better help students having difficulty with mathematics

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