

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



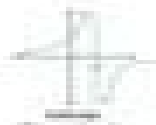
## Continuity

$f$  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:

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

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

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

## Indefinite Limits

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

- If  $f(x)$  is a growth factor, the limit is  $\infty$ .
- If  $f(x)$  is a growth factor, the limit is  $0$ .
- If  $f(x) = \frac{p(x)}{q(x)}$  and  $p(x)$  and  $q(x)$  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

Discontinuity

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

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

$$\frac{d}{dx}(\sin x) = \cos x$$

$$\frac{d}{dx}(x^n) = x^n$$

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

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

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

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

## 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 approximation of  $f$  at  $a$  is

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

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# Math For Calculus Study Guide

**Noah Ras**



## **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

*Calculus, Student Study Guide* Howard Anton, Irl C. Bivens, Stephen Davis, 2005-08-04 Designed to accompany the eighth edition which continues to evolve to fulfill the needs of a changing market by providing flexible solutions to teaching and learning needs of all kinds The new edition retains the strengths of earlier editions such as Anton s trademark clarity of exposition sound mathematics excellent exercises and examples and appropriate level Anton also incorporates new ideas that have withstood the objective scrutiny of many skilled and thoughtful instructors and their students

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[Vector Calculus Study Guide & Solutions Manual](#) Karen Pao, Frederick Soon, 2003-08-22 Includes solutions to selected exercises and study hints

*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

**Study Guide for Stewart/Redlin/Watson's Precalculus: Mathematics for Calculus, 5th** James Stewart, Lothar Redlin, Saleem Watson, 2006 You will have no trouble succeeding with the Study Guide for PRECALCULUS MATHEMATICS FOR CALCULUS It is packed with detailed explanations worked out examples and practice problems with the corresponding text and study guide sections you will stay right on track

*Mathematics Calculus Study Guide* Noah Ras, 2014-12-11 Calculus is the mathematical study of change in the same way that geometry is the study of shape and algebra is the study of operations and their application to solving equations This book will help remove the FEAR of taking a calculus course

[Calculus Early Transcendentals Single Variable, Student Study Guide](#) Howard Anton, Irl C. Bivens, Stephen Davis, 2008-10-17 The ninth edition continues to provide engineers with an accessible resource for learning calculus The book includes carefully worked examples and special problem types that help improve comprehension New applied exercises demonstrate the usefulness of the mathematics Additional summary tables with step by step details are also incorporated into the chapters to make the

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