

AP CALC AB FORMULA STUDY GUIDE

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Properties of Limits

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

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

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

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

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

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

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

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) $\lim_{x \rightarrow a} f(x)$ 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:

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

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

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

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

Infinite Limits

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

• If $f(x)$ grows faster, the limit is ∞ .

• If $f(x)$ grows faster, 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

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

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



Continuity



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 of f at point a

Line 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

**Howard Anton,Irl C. Bivens,Stephen
Davis**



Math For Calculus Study Guide:

Pre-Calculus Study Guide (Speedy Study Guide) Speedy Publishing LLC, 2014-11-19 Studying for Pre Calculus is no joke and it the beginning to the part of math where paying attention alone is not an option In order for any student to get better in math and know their material many different trials and errors must take place in addition to trying out the formulas learned to see how applying a formula is very different than just memorizing them By teaching the student about formulas and how to approach pre calculus best the study guide is always considered to be the most useful asset that teachers use to help them get the message across to students for years to come in their professional lives

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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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Calculus Methods (Speedy Study Guides) Speedy Publishing, 2014-06-17 The rudiments of Calculus methods are ordered with an immense degree of specificity Formulaic applications of universal problems are often best solved with an easily illustrated reference An annotated chart of the most common and universally applied Calculus formulas and symbols is a handy way to keep reminders in check and at hand From common core standard procedures to intricate graphical analysis of the unreal and imagined a concise Calculus reference chart can never be under appreciated An accessible chart is a key factor in a concrete temporal and logical approach to Calculus problems

Barron's Math 360: A Complete Study Guide to Pre-Calculus with Online Practice Barron's Educational Series, Lawrence S. Leff, Christina Pawlowski-Polanish, 2021-09-07 Barron s Math 360 Pre Calculus is your

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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

concepts easier to understand The Quick Check and Focus on Concepts exercises have been updated as well Engineers become engaged in the material because of the easy to read style and real world examples

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Arithmetic Through Precalculus. a Primer and Study Guide Alexander Kheifits,2017-07-07 This two volume text is designed for high school students preparing for college and for college students who have to take a remedial mathematics course In both cases the goal of this book is to help the students to learn the necessary mathematics and to go straightforwardly to college level courses without taking the mathematical remediation at all or complete it quickly The book is also useful to people who after spending a few years in workforce decide to advance their life and career and go to college but have to refresh their mathematical background The text will be also useful as a reference book to the teachers and parents The book is quite suitable for international students who wish to study at any American or European college or university This book contains brief introductions to the necessary topics many examples with detailed solutions and more than 500 exercises with answers for the students individual practice The book includes numerous tips on how to study mathematics and to approach typical problems The author teaches at the City University of New York and the text reflects the author's 50 years of experience in teaching mathematics at all levels from high school to undergraduate to graduate school

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