

AP CALC AB FORMULA STUDY GUIDE

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Properties of Limits

$$\begin{aligned}\lim_{x \rightarrow a} [f(x) + g(x)] &= \lim_{x \rightarrow a} f(x) + \lim_{x \rightarrow a} g(x) \\ \lim_{x \rightarrow a} [f(x) - g(x)] &= \lim_{x \rightarrow a} f(x) - \lim_{x \rightarrow a} g(x) \\ \lim_{x \rightarrow a} [c f(x)] &= c \lim_{x \rightarrow a} f(x) \\ \lim_{x \rightarrow a} [f(x)g(x)] &= \lim_{x \rightarrow a} f(x) \cdot \lim_{x \rightarrow a} g(x) \\ \lim_{x \rightarrow a} \frac{f(x)}{g(x)} &= \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)} \text{ if } \lim_{x \rightarrow a} g(x) \neq 0\end{aligned}$$

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

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

Right/Left Limit Properties
If f is a polynomial or a rational function with a in the domain of f , then $\lim_{x \rightarrow a} f(x) = f(a)$.

Properties

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

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

The Squeeze Theorem

Given $f(x) \leq g(x) \leq h(x)$ for values of x near a , if $\lim_{x \rightarrow a} f(x) = \lim_{x \rightarrow a} h(x) = L$, then $\lim_{x \rightarrow a} g(x) = L$.



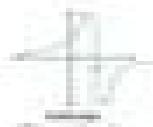
Continuity

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

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

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

Discontinuities



Vertical Asymptotes of f'

The function f has a vertical asymptote at $x = a$ if either one of the following statements is true:

$$\begin{aligned}\lim_{x \rightarrow a^+} f'(x) &= \infty \\ \lim_{x \rightarrow a^-} f'(x) &= \infty \\ \lim_{x \rightarrow a^+} f'(x) &= -\infty \\ \lim_{x \rightarrow a^-} f'(x) &= -\infty\end{aligned}$$

$$\begin{aligned}\lim_{x \rightarrow a^+} f'(x) &= -\infty \\ \lim_{x \rightarrow a^-} f'(x) &= -\infty \\ \lim_{x \rightarrow a^+} f'(x) &= \infty \\ \lim_{x \rightarrow a^-} f'(x) &= \infty\end{aligned}$$

Indefinite Limits

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

- If $f(x)$ is a bounded function, the limit ∞ .
- If $f(x)$ is a bounded function, the limit 0 .
- If $f(x)$ is a function with a finite degree, the limit equals the ratio of the leading coefficients to

Horizontal Asymptotes 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 $f(a) \neq f(b)$, then there is at least one number c in $[a, b]$ such that $f(c) = d$.



Average Value of Change
of a function $f(x)$ over closed interval $[a, b]$ is $\frac{f(b) - f(a)}{b - a}$

$$\text{Average value of } f(x) = \frac{f(x + \Delta x) - f(x)}{\Delta x}$$

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

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

Rate of Change



Differentiation Rules

$$\frac{d}{dx}[f(x)] = 0$$

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

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

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

Derivatives

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

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

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

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

Derivatives of Inverses

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

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

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

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

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 $x = a$
Linear approximation of f at $x = a$:
 $L(x) = f(a) + f'(a)(x - a)$

Math For Calculus Study Guide

Speedy Publishing

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

Year 13

Mathematics with Calculus Thomas Sidebotham,1996

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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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 **Calculus Methods (Speedy Study Guides)** Speedy Publishing LLC,2015-04-23 This easy to digest guide on calculus begins with a thorough yet short definition of sequences It then proceeds to introduce the fundamental concepts of limit and continuity and differentiation This guide is a simple yet highly effective resource for calculus For students taking the course calculus can be quite overwhelming but this guide smartly breaks down the components into more understandable bits [Calculus Study Guide, Solutions to Problems from Past Tests and Exams](#) Sergio Da Silva,2015-08-09 Written by a current PhD student 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 135 136 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 doesn't focus on proofs For a more rigorous approach see the MAT 137 guide After being a teaching assistant for the course for several years Sergio found students constantly asking about solutions from other help manuals The solutions were either wrong or poorly explained He saw the need for a more comprehensive solution manual that explained every step in detail Before beginning his PhD at Cornell University he wrote this study guide to better help students having difficulty with mathematics *Calculus Equations And Answers (Speedy Study Guides)* Speedy Publishing,2015-04-27 Calculus and difficult have for the long time been synonymous This quick study guide is a review on basic exponents functions graphs limits and derivatives If you are currently discussing these in school and would like help understanding them this is the guide to help you with that Composed of equations for you to practice on this is a book that you must have **Arithmetic Through Precalculus. a Primer and Study Guide** Alexander Kheyfits,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 **Pre-Calculus** Ken Yablonsky,2015-12-31 Each step higher in math studies is crucial to doing well at the next level Pre Calc is the gateway to

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