

# AP CALC BC FORMULA STUDY GUIDE

## Absolute Value

$$|x| = \begin{cases} -x, & \text{if } x < 0 \\ x, & \text{if } x \geq 0 \end{cases}$$

## Even / Odd Function

evaluate $f(x)$	$f'$ is	symmetric
$f(-x) = f(x)$	even	$y = \text{axis}$
$f(-x) = -f(x)$	odd	origin

## Theorems

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

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

## Horizontal Asymptote(s) of $f$

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

## Infinite Limits

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

- if  $f(x)$  grows faster, the limit =  $\infty$
- if  $g(x)$  grows faster, the limit = 0
- if  $f(x)$  &  $g(x)$  are polynomials with the same degree, the limit = the ratio of their leading coefficients

## Continuity

$f$  is continuous at a number  $a$ , if

(1)  $f(a)$  is defined

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

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

## Intermediate Value Theorem

If  $f$  is continuous on  $[a, b]$  and

$N$  is any number between

$f(a)$  and  $f(b)$ , then there is at least

one number  $c$  in  $[a, b]$  such that

$$f(c) = N.$$



Average Rate of Change of a function  $f(x)$  over closed

$$\text{interval } [a, b] \text{ is } \frac{f(b) - f(a)}{b - a}$$

## Chain Rule

## Definition of a Derivative

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

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

## Derivatives

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

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

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

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

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

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

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

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

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

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

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

## Product Rule

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

## Quotient Rule

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

## Chain Rule

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

## Linear Approximation / Tangent

Line approximation of  $f$  at  $a$  is

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

## L'Hopital's Rule

$$\text{if } \lim_{x \rightarrow a} \frac{f(x)}{g(x)} = 0/0 \text{ or } \infty/\infty,$$

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

## Mean Value Theorem

if  $f$  is continuous on  $[a, b]$  and

differentiable on  $(a, b)$ , then there

is a number  $c$  in  $(a, b)$  such that

$$f'(c) = \frac{f(b) - f(a)}{b - a}$$



## Extreme Value Theorem

if  $f$  is continuous on  $[a, b]$ , then  $f$  has both a minimum and a maximum on the interval.

## Critical Number

$c$  is a critical number of  $f$  if either

$f'(c)$  does not exist or  $f'(c) = 0$ .

Absolute Minimum/Maximum of  $f$  over a Closed Interval  $[a, b]$

(1) Find the critical values of  $f$ .

(2) Plug critical values and endpoints into  $f$  to find the absolute min/max.

## Increasing / Decreasing

Let  $f$  be continuous on  $[a, b]$  and differentiable on  $(a, b)$ .

• if  $f'(x) > 0$ ,  $f$  is increasing.

• if  $f'(x) < 0$ ,  $f$  is decreasing.

## First Derivative Test

Let  $c$  be a critical number of a

continuous function  $f$ .

• if  $f'(x)$  changes from positive to negative at  $c$ , then  $f$  has a local maximum at  $c$ .

• if  $f'(x)$  changes from negative to positive at  $c$ , then  $f$  has a local minimum at  $c$ .

## Concavity

• if  $f''(x) > 0$ ,  $f$  is concave up.

• if  $f''(x) < 0$ ,  $f$  is concave down.

## Point of Inflection

is where  $f$  is continuous and

changes from concave up to

concave down, or vice versa.

## Second Derivative Test

if  $f$  has a critical value at  $c$ ,

$f'(c) = 0$ , and

• if  $f''(c) > 0$ , then  $f$  has a local minimum at  $c$ .

• if  $f''(c) < 0$ , then  $f$  has a local maximum at  $c$ .

Particle motion at rest:  $v(t) = 0$

Moving in positive direction

(right/forward):  $a(t) > 0$

Moving in negative direction

(left/backward):  $a(t) < 0$

# Ap Calculus Bc Study Guide

**RD Boyd**



## Ap Calculus Bc Study Guide:

**AP Calculus BC LearningExpress (Organization),2020** This comprehensive study guide offers a crash course for the the official AP Calculus BC Exam Includes detailed test information helpful review and essential practice to help you prepare

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adjunct professor at Queens College where she taught Algebra and Calculus II Currently she teaches mathematics at Bayside High School in Bayside New York and coaches the math team for the school Her favorite course to teach is AP Calculus because it requires the most discipline rigor and creativity About Our Editor and Technical Accuracy Checker Stu Schwartz has been teaching mathematics since 1973 For 35 years he taught in the Wissahickon School District in Ambler Pennsylvania specializing in AP Calculus AB and BC and AP Statistics Mr Schwartz received his B S degree in Mathematics from Temple University Philadelphia Mr Schwartz was a 2002 recipient of the Presidential Award for Excellence in Mathematics Teaching and also won the 2007 Outstanding Educator of the Year Award for the Wissahickon School District Mr Schwartz s website [www.mastermathmentor.com](http://www.mastermathmentor.com) is geared toward helping educators teach AP Calculus AP Statistics and other math courses Mr Schwartz is always looking for ways to provide teachers with new and innovative teaching materials believing that it should be the goal of every math teacher not only to teach students mathematics but also to find joy and beauty in math as well

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**AP Calculus BC Made Easy** Abolfazl Nazari, 2024-08-17 5 Steps to a 5: AP Calculus AB 2021 Elite Student Edition William Ma, 2020-10-02 MATCHES THE LATEST EXAM In this hybrid year let us supplement your AP classroom experience with this multi platform study guide The immensely popular 5 Steps to a 5 Elite Student Edition has been updated for the 2020 21 school year and now contains 3 full length practice exams available both in the book and online that reflect the latest exam 5 Minutes to a 5 section a 5 minute activity for each day of the school year that reinforces the most important concepts covered in class Up to Date Resources for COVID 19 Exam Disruption Access to a robust online platform Hundreds of practice exercises with thorough answer explanations Comprehensive overview of the AP Calculus AB exam format Step by step explanations for nearly 800 AP Calculus AB problems An appendix of common formulas and theorems frequently tested

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**AP Calculus BC Prep Plus 2020 & 2021** Kaplan Test Prep,2020-07-14 Kaplan s AP Calculus BC Prep Plus 2020 2021 is revised to align with the latest exam This edition features more than 1 000 practice questions in the book and online complete explanations for every question and a concise review of high yield content to quickly build your skills and confidence Test like practice comes in 6 full length exams 15 pre chapter quizzes 15 post chapter quizzes and 22 online quizzes Customizable study plans ensure that you make the most of the study time you have We re so confident that AP Calculus AB Prep Plus offers the guidance you need that we guarantee it after studying with our online resources and book you ll score higher on the exam or you ll get your money back To access your online resources go to kaptest.com moreonline and follow the directions You ll need your book handy to complete the process The College Board has announced that the 2021 exam dates for AP Calculus AB will be May 4 May 24 or June 9 depending on the testing format Each school will determine the testing format for their students Expert Guidance We know the test our AP experts make sure our practice questions and study materials are true to the exam We know students every explanation is written to help you learn and our tips on the exam structure and question formats will help you avoid surprises on Test Day We invented test prep Kaplan kaptest.com has been helping students for 80 years and 9 out of 10 Kaplan students get into one or more of their top choice colleges

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**Princeton Review AP Calculus BC Premium Prep, 12th Edition** The Princeton Review, David Khan, 2025-08-05 PREMIUM PRACTICE FOR A PERFECT 5 Ace the newly digital AP Calculus BC Exam with this comprehensive study guide including 5 full length practice tests with answer explanations, timed online practice and thorough content reviews. Techniques That Actually Work: Tried and true strategies to help you avoid traps and beat the test. Tips for pacing yourself and guessing logically. Essential tactics to help you work smarter, not harder. Everything You Need for a High Score. Updated to address the new digital exam. Comprehensive content review for all test topics. Online digital flashcards to review core content. Access to online drills, study plans, a handy list of formulas, helpful pre college information and more via your online Student Tools. Practice Your Way to Excellence: 5 full length practice tests, 2 in the book, 3 online with detailed answer explanations. Online tests provided as both digital versions with timer option to simulate exam experience online and as downloadable PDFs with interactive elements mimicking the exam interface. End of chapter drills and targeted practice problem sets plus step by step walk throughs of key calculus formulas and sample questions.

*Barron's AP Calculus with CD-ROM* David Bock, Dennis Donovan, Shirley O. Hockett, 2015-02-01 Both Calculus AB and Calculus BC are covered in this comprehensive AP test preparation manual. The book's main features include: Four practice exams in Calculus AB and four more in Calculus BC. All test questions answered with solutions explained. A detailed subject review covering topics for both exams. Advice to students on efficient use of their graphing calculators. The manual comes with a CD-ROM presenting two more practice tests with answers. One test is in Calculus AB and the other in Calculus BC. **BONUS ONLINE PRACTICE TEST** Students who purchase this book or package will also get FREE access to one additional

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