

# 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 to
$f(-x) = f(x)$	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 coefficient to

## Continuity

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

- $f(a)$  is defined
- $\lim_{x \rightarrow a} f(x)$  exists
- $\lim_{x \rightarrow a} f(x) = f(a)$

## Intermediate Value Theorem

If  $f$  is continuous on  $[a, b]$  and  $f$  is arbitrary 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  $\frac{f(b) - f(a)}{b - a}$

## 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

$$\begin{aligned} \frac{d}{dx} \sin(x) &= \cos(x) & \frac{d}{dx} (e^x) &= e^{x-1} \\ \frac{d}{dx} \cos(x) &= -\sin(x) & \frac{d}{dx} (e^x) &= e^x \\ \frac{d}{dx} \tan(x) &= \sec^2(x) & \frac{d}{dx} (e^{ax}) &= ae^{ax} \\ \frac{d}{dx} \cot(x) &= -\csc^2(x) & \frac{d}{dx} (\ln x) &= \frac{1}{x} \\ \frac{d}{dx} \sec(x) &= \sec(x)\tan(x) & & \\ \frac{d}{dx} \csc(x) &= -\csc(x)\cot(x) & & \end{aligned}$$

## 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  $[a, b]$

- Find the critical values of  $f$ .
- Plug critical values and endpoints into  $f$  to find the absolute minimum.

## 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):  $v(t) > 0$

Moving in negative direction (left/backward):  $v(t) < 0$

# Ap Calculus Bc Study Guide

**The Princeton Review, David Khan**



## **Ap Calculus Bc Study Guide:**

**AP Calculus BC Study Guide**, 2018 *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 **AP® Calculus AB & BC Crash Course, 2nd Ed., Book + Online J.** Rosebush, Flavia Banu, 2016-10-06 REA s Crash Course for the AP Calculus AB BC Exams Gets You a Higher Advanced Placement Score in Less Time 2nd Edition Updated for the 2017 Exams The REA Crash Course is the top choice for the last minute studier or any student who wants a quick refresher on the subject Are you crunched for time Have you started studying for your Advanced Placement Calculus AB BC exams yet How will you memorize everything you need to know before the tests Do you wish there was a fast and easy way to study for the exams and boost your score If this sounds like you don t panic REA s Crash Course for AP Calculus AB BC is just what you need Go with America s No 1 quick review prep for AP exams to get these outstanding features Targeted Focused Review Study Only What You Need to Know The REA Crash Course is based on an in depth analysis of the AP Calculus AB BC course description outline and actual AP test questions It covers only the information tested on the exams so you can make the most of your valuable study time Written by experienced AP Calculus instructors the targeted review chapters prepare students for the test by only focusing on the topics tested on the AP Calculus AB BC exams Our easy to read format gives students a quick but strategic course in AP Calculus AB BC and covers functions graphs units derivatives integrals and polynomial approximations and series Expert Test taking Strategies Our author shares detailed question level strategies and explain the best way to answer AP questions you ll find on the exams By following this expert tips and advice you can boost your overall point score Take REA s Practice Exams After studying the material in the Crash Course go to the online REA Study Center and test what you ve learned Our online practice exams one for Calculus AB one for Calculus BC feature timed testing detailed explanations of answers and automatic scoring analysis Each exam is balanced to include every topic and type of question found on the actual AP exam so you know you re studying the smart way Whether you re cramming for the test at the last minute looking for an extra edge or want to study on your own in preparation for the exams this is the quick review study guide every AP Calculus AB BC student should have When it s crunch time and your Advanced Placement exam is just around the corner you need REA s Crash Course for AP Calculus AB BC About the Authors Joan Marie Rosebush teaches calculus courses at the University of Vermont Ms Rosebush has taught mathematics to elementary middle school high school and college students She taught AP Calculus via satellite television to high school students scattered throughout Vermont Ms Rosebush earned her Bachelor of Arts degree in elementary education with a concentration in mathematics at the University of New York in Cortland N Y She received her Master s Degree in education from Saint Michael s College Colchester Vermont Flavia Banu graduated from Queens College of the City University of New York with a B A in Pure Mathematics and an M A in Pure Mathematics in 1997 Ms Banu was an

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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## **Table of Contents Ap Calculus Bc Study Guide**

1. Understanding the eBook Ap Calculus Bc Study Guide
  - The Rise of Digital Reading Ap Calculus Bc Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Calculus Bc Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ap Calculus Bc Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Calculus Bc Study Guide
  - Personalized Recommendations
  - Ap Calculus Bc Study Guide User Reviews and Ratings
  - Ap Calculus Bc Study Guide and Bestseller Lists

5. Accessing Ap Calculus Bc Study Guide Free and Paid eBooks
  - Ap Calculus Bc Study Guide Public Domain eBooks
  - Ap Calculus Bc Study Guide eBook Subscription Services
  - Ap Calculus Bc Study Guide Budget-Friendly Options
6. Navigating Ap Calculus Bc Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Ap Calculus Bc Study Guide Compatibility with Devices
  - Ap Calculus Bc Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ap Calculus Bc Study Guide
  - Highlighting and Note-Taking Ap Calculus Bc Study Guide
  - Interactive Elements Ap Calculus Bc Study Guide
8. Staying Engaged with Ap Calculus Bc Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ap Calculus Bc Study Guide
9. Balancing eBooks and Physical Books Ap Calculus Bc Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ap Calculus Bc Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ap Calculus Bc Study Guide
  - Setting Reading Goals Ap Calculus Bc Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Calculus Bc Study Guide
  - Fact-Checking eBook Content of Ap Calculus Bc Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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