

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



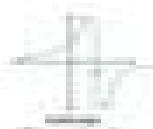
Continuity

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



Point Discontinuity

Jump Discontinuity

Removable Discontinuity

Vertical Asymptotes of f'

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

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

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

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

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

Indefinite Limits

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

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

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

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

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

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

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

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

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

$$\frac{d}{dx}(x^2) = x^2 \quad \frac{d}{dx}(\cos x) = -\sin x$$

$$\frac{d}{dx}(x^3) = x^3 \ln x \quad \frac{d}{dx}(\tan x) = \sec^2 x$$

$$\frac{d}{dx}(x^4) = \frac{4}{x}$$

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

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

Chain Rule

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

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

Ap Calculus Study Guide

Kerry J. King

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functions and their graphs derivatives and integrals differential equations and sequences and series Additional features include test taking tips and guidelines for using a graphing calculator Review material includes multiple choice questions free response questions and many applications problems **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 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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won the 2007 Outstanding Educator of the Year Award for the Wissahickon School District Mr Schwartz's resource rich website 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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