

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



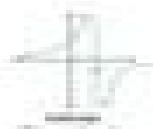
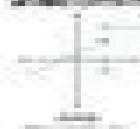
## Continuity

$f$  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

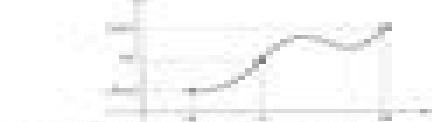
$$\lim_{x \rightarrow a} f(x)$$

- If  $f(x)$  is a bounded function, the limit  $\infty$ .
- If  $f(x)$  is a bounded function, the limit  $0$ .
- If  $f(x)$  is a function with two branches with the same degree, the limit equals the ratio of their 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  $f(c) = L$ .



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

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

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

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

## 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

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

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

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

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

## 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** or Tangent Line Approximation of  $f$  at  $x = a$ :  $L(x) = f(a) + f'(a)(x - a)$ .

# Math For Calculus Study Guide

**Noah Ras**

## **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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**Mathematics with Calculus** Thomas Sidebotham,1996

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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

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touché dans son amour propre il laisse l orgueil et la vanité le dominer et décide de la détromper en séduisant rosette une jeune paysanne sœur de lait de camille espérant ainsi rendre sa cousine jalouse lui donnant rendez vous afin qu elle assiste à la scène

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le drame des rêves de la jeunesse conclusion le drame de l orgueil camille et perdican en effet étaient promis l un à l autre depuis longtemps et la rencontre trop habilement combinée par le baron devait préluder à un mariage heureux mais chacun d eux repousse à son tour l heureux projet en se laissant aller à un mouvement de vanité

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celui ci arrive à ses fins mais lors de leur premier baiser rosette amoureuse de perdican les aperçoit et pousse un cri strident rosette se tue et camille mise au courant du stratagème de perdican le quitte le titre sonne comme un avertissement on

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alfred de musset 1861 la pièce se déroule au château du baron camille la nièce du baron sort du couvent elle a 18 ans elle retrouve le fils de son oncle perdican qui a 21 ans et vient d obtenir un doctorat ils ne s étaient pas vus depuis dix ans le baron souhaite les marier perdican et camille s aiment depuis toujours