

# AP CALC AB FORMULA STUDY GUIDE

## Properties of Limits

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

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

$$\lim_{x \rightarrow a} [c \cdot f(x)] = c \lim_{x \rightarrow a} f(x)$$

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

$$\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)} \quad \text{if } \lim_{x \rightarrow a} g(x) \neq 0$$

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

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

**Direct Substitution Property**  
If  $f$  is a polynomial or a rational function and  $a$  is in the domain of  $f$ , then  $\lim_{x \rightarrow a} f(x) = f(a)$ .

## Theorems

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

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

## The Squeeze Theorem

Given  $f(x) \leq g(x) \leq h(x)$  for values of  $x$  near  $a$ , **EXCEPT** possibly at  $a$ . 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 (1)  $f(a)$  is defined

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

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

## Discontinuities



## Vertical Asymptote(s) of $f$

The line  $x = a$  is a vertical asymptote of  $y = f(x)$  if at least one of the following statements is true:

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

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

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

## Infinite Limits

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

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

## Horizontal Asymptote(s) of $f$

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

## Intermediate Value Theorem

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

$$\frac{f(b) - f(a)}{b - a}$$

## Definition of a Derivative

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

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

## Not Differentiable



Corner

Corner

Vertical Tangent

## Differentiation Rules

$$\frac{d}{dx}(c) = 0$$

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

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

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

## Derivatives

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

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

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

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

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

## Derivatives of Inverse

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

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

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

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

## Product Rule

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

## 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 point

Line approximation of  $f$  at  $a$  is

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

# Ap Calculus Exam Study Guide

**Michal Rosen-Zvi**



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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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