

# AP Calc AB

# Unit 1: Differentiation - Definitions and Properties

2.1 - 2.10

## The Basics

• Slope of a tangent line to a curve:

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

• alternate form of a derivative:

$$\lim_{x \rightarrow c} \frac{f(x) - f(c)}{x - c}$$

*difficult when you have a specific x-value*

• remember: derivative = slope of tangent = instantaneous rate of change

## Differentiability

• functions are differentiable when:

- 1. smooth
- 2. sharp
- 3. corner
- 4. vertical tangent
- 5. cusp

## Derivative Rules:

$$\frac{d}{dx}(c) = 0 \quad \text{deriv of constant} = 0$$

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

$$\frac{d}{dx}(cf(x)) = c \cdot f'(x) \quad \text{constant multiple}$$

$$\frac{d}{dx}(f(x) \pm g(x)) = \frac{d}{dx} f(x) \pm \frac{d}{dx} g(x) \quad \text{sum/difference}$$

$$\frac{d}{dx}(f(x) \cdot g(x)) = f'g + fg' \quad \text{product rule}$$

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

## Derivatives of Trig & ln

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

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

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

$$\frac{d}{dx} \cot x = -\csc^2 x$$

$$\frac{d}{dx} \sec x = \sec x \tan x$$

$$\frac{d}{dx} \csc x = -\csc^2 x$$

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

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

$$\frac{d}{dx} 2^x = 2^x \ln 2$$

## Find an instantaneous P.A.C.

avg P.A.C.: slope of secant line

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


instantaneous:  $f'(c)$ , slope of tangent line

Tangent lines: horizontal  $f'(x) = 0$

vertical  $f'(x)$  undefined

Normal line is perpendicular to tangent

# Ap Calculus Ab Unit 2 Derivatives Name

**George Milbry Gould**



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**Calculus and Analytic Geometry** Philip Gillett, 1988 [The Handbook of Measurement and Control](#), 1951

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**Rogawski's Calculus for AP\*** Jon Rogawski, Ray Cannon, 2011-04-11 Rogawski's remarkable textbook was immediately acclaimed for balancing formal precision with a guiding conceptual focus that engages students while reinforcing the relevance of calculus to their lives and future studies Precise formal proofs vivid examples colorful graphics intuitive explanations and extraordinary problem sets all work together for an introduction to the course that is engaging and enduring Watch instructor video reviews here Now Rogawski's Calculus returns in a meticulously updated new edition in a version designed specifically for AP courses Rogawski's Calculus for AP Second Edition features a new coauthor Ray Cannon formerly AP Calculus Chief Reader for the College Board Among other contributions Dr Cannon wrote this version's end of chapter multiple choice and Free Response Questions giving students the opportunity to work the same style of problems they will see on the AP exam TEACHERS Download now or click here to request Rogawski's Calculus for AP Second Edition Chapter Sampler for Early Transcendentals featuring Chapter 3 Differentiation

**Fast Track to A 5** Sharon Cade, 2006

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