

Derivative Rules

Exponential Functions

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

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

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

$$\frac{d}{dx} (a^{g(x)}) = \ln(a) a^{g(x)} g'(x)$$

Logarithmic Functions

$$\frac{d}{dx} (\ln x) = \frac{1}{x}, x > 0$$

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

$$\frac{d}{dx} (\log_a x) = \frac{1}{x \ln a}, x > 0$$

$$\frac{d}{dx} (\log_a g(x)) = \frac{g'(x)}{g(x) \ln a}$$

Trigonometric Functions

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

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

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

$$\frac{d}{dx} (\csc x) = -\csc x \cot x$$

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

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

Inverse Trigonometric Functions

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

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

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

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

$$\frac{d}{dx} (\sec^{-1} x) = \frac{1}{x\sqrt{x^2-1}}, x \neq \pm 1, 0$$

$$\frac{d}{dx} (\csc^{-1} x) = \frac{-1}{x\sqrt{x^2-1}}, x \neq \pm 1, 0$$

Hyperbolic Functions

$$\frac{d}{dx} (\sinh x) = \cosh x$$

$$\frac{d}{dx} (\cosh x) = \sinh x$$

$$\frac{d}{dx} (\tanh x) = \operatorname{sech}^2 x$$

$$\frac{d}{dx} (\operatorname{csch} x) = -\operatorname{csch} x \operatorname{coth} x$$

$$\frac{d}{dx} (\operatorname{sech} x) = -\operatorname{sech} x \tanh x$$

$$\frac{d}{dx} (\operatorname{coth} x) = -\operatorname{csch} x$$

Inverse Hyperbolic Functions

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

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

$$\frac{d}{dx} (\tanh^{-1} x) = \frac{1}{1-x^2}, |x| < 1$$

$$\frac{d}{dx} (\operatorname{csch}^{-1} x) = \frac{-1}{|x|\sqrt{1-x^2}}, x \neq 0$$

$$\frac{d}{dx} (\operatorname{sech}^{-1} x) = \frac{-1}{x\sqrt{1-x^2}}, 0 < x < 1$$

$$\frac{d}{dx} (\operatorname{coth}^{-1} x) = \frac{1}{1-x^2}, |x| > 1$$

Derivatives Principles And Practice Solutions

Yan Bai



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Table of Contents Derivatives Principles And Practice Solutions

1. Understanding the eBook Derivatives Principles And Practice Solutions
 - The Rise of Digital Reading Derivatives Principles And Practice Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Derivatives Principles And Practice Solutions
 - 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 Derivatives Principles And Practice Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Derivatives Principles And Practice Solutions

- Personalized Recommendations
 - Derivatives Principles And Practice Solutions User Reviews and Ratings
 - Derivatives Principles And Practice Solutions and Bestseller Lists
5. Accessing Derivatives Principles And Practice Solutions Free and Paid eBooks
 - Derivatives Principles And Practice Solutions Public Domain eBooks
 - Derivatives Principles And Practice Solutions eBook Subscription Services
 - Derivatives Principles And Practice Solutions Budget-Friendly Options
 6. Navigating Derivatives Principles And Practice Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Derivatives Principles And Practice Solutions Compatibility with Devices
 - Derivatives Principles And Practice Solutions Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Derivatives Principles And Practice Solutions
 - Highlighting and Note-Taking Derivatives Principles And Practice Solutions
 - Interactive Elements Derivatives Principles And Practice Solutions
 8. Staying Engaged with Derivatives Principles And Practice Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Derivatives Principles And Practice Solutions
 9. Balancing eBooks and Physical Books Derivatives Principles And Practice Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Derivatives Principles And Practice Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Derivatives Principles And Practice Solutions
 - Setting Reading Goals Derivatives Principles And Practice Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Derivatives Principles And Practice Solutions

- Fact-Checking eBook Content of Derivatives Principles And Practice Solutions
 - 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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