

In the general case, for $y = \log_b g(x)$, $b^y = g(x)$, from the definition of logarithms.

Taking derivatives $b^y \ln b \frac{dy}{dx} = g'(x)$,

$$\frac{dy}{dx} = \frac{g'(x)}{b^y \ln b} = \frac{g'(x)}{g(x) \ln b}.$$

$$\text{For } y = \log_b x, \frac{dy}{dx} = \frac{1}{x \ln b}.$$

$$\text{For } y = \log_e x, \frac{dy}{dx} = \frac{1}{x}.$$

$$\text{For } y = \log_b g(x), \frac{dy}{dx} = \frac{g'(x)}{g(x) \ln b}.$$

EXAMPLE 3

Find the value of $g'(2)$ for the function $g(x) = x^3 \log_2(\sqrt{x^2 + 4})$.

Solution

Using the Product and Chain Rules,

$$\begin{aligned} g'(x) &= 3x^2 \log_2(\sqrt{x^2 + 4}) + x^3 \frac{1}{\sqrt{x^2 + 4} \ln(2)} \frac{2x}{2\sqrt{x^2 + 4}} \\ &= 3x^2 \log_2(\sqrt{x^2 + 4}) + \frac{x^4}{(x^2 + 4) \ln 2}. \end{aligned}$$

$$\begin{aligned} \text{Then } g'(2) &= 12 \log_2 \sqrt{4 + 4} + \frac{16}{(4 + 4) \ln(2)} \\ &= 12 \log_2 \sqrt{8} + \frac{16}{8 \ln 2} \\ &= 12 \log_2 2^{\frac{3}{2}} + \frac{2}{\ln 2} \\ &= 12 \times \frac{3}{2} + \frac{2}{\ln 2} = 18 + \frac{2}{\ln 2}. \end{aligned}$$

EXAMPLE 4

If I_0 is the intensity of barely audible sound, then the decibel (dB) measure of the loudness, L , of a sound of intensity I is given by $L = \log_{10}\left(\frac{I}{I_0}\right)$.

- What is the loudness, in dB, of a sound of intensity I_0 ? $100 I_0$?
- If the intensity of a siren is 7000 units and is increasing at 100 000 units per second, what is the accompanying rate of change of the loudness of the sound?

Solution

a. A sound of intensity I_0 has loudness

$$\begin{aligned} L &= \log_{10}\left(\frac{I_0}{I_0}\right) \\ &= \log_{10} 1 \\ &= 0 \text{ dB.} \end{aligned}$$

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Table of Contents Advanced Functions And Introductory Calculus Solutions

1. Understanding the eBook Advanced Functions And Introductory Calculus Solutions
 - The Rise of Digital Reading Advanced Functions And Introductory Calculus Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Functions And Introductory Calculus 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 Advanced Functions And Introductory Calculus Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Functions And Introductory Calculus Solutions
 - Personalized Recommendations
 - Advanced Functions And Introductory Calculus Solutions User Reviews and Ratings

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