

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

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

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

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

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

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,

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

Then

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

### 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?

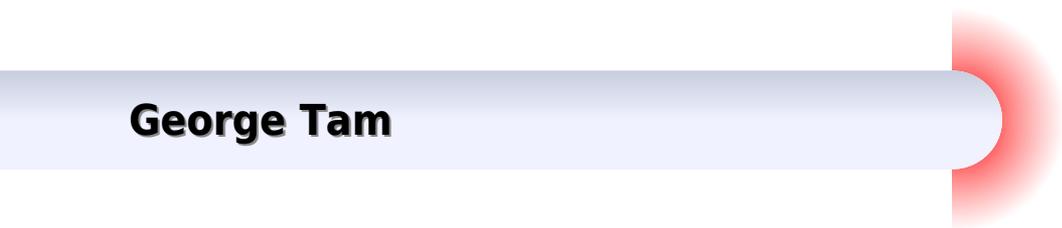
#### Solution

- A 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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**George Tam**



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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
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  - Interactive Elements Advanced Functions And Introductory Calculus Solutions
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  - 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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