

**Calculus II**  
**Practice Problems 1: Answers**

1. Solve for  $x$ :

a)  $6^x = 36^{2-x}$

**Answer.** Since  $36 = 6^2$ , the equation becomes  $6^x = 6^{2(2-x)}$ , so we must have  $x = 2(2-x)$  which has the solution  $x = 4/3$ .

b)  $\ln_3 x = 5$

**Answer.** If we exponentiate both sides we get  $x = 3^5 = 243$ .

c)  $\ln_2(x+1) - \ln_2(x-1) = \ln_2 8$

**Answer.** Since the difference of logarithms is the logarithm of the quotient, we rewrite this as

$$\ln_2\left(\frac{x+1}{x-1}\right) = \ln_2 8,$$

which is, after exponentiating, the same as

$$\frac{x+1}{x-1} = 8,$$

which gives us  $x+1 = 8(x-1)$ , so that  $x = 9/7$ .

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2. Find the derivative of the given function:

a)  $y = \ln(\ln x)$

**Answer.** Use the chain rule:

$$\frac{dy}{dx} = \frac{1}{\ln x} \frac{d}{dx} \ln x = \frac{1}{x \ln x}$$

b)  $y = \log_2(x^2 + 1)$

**Answer.** Remember that  $\log_2 A = \ln A / \ln 2$ , so  $y = (\ln(x^2 + 1)) / \ln 2$ . Then, use the chain rule:

$$\frac{dy}{dx} = \frac{1}{(\ln 2)(x^2 + 1)} 2x = \frac{2}{\ln 2} \frac{x}{x^2 + 1}.$$

c)  $y = \frac{e^{x^2}}{x}$

**Answer.** Use the quotient rule carefully:

$$\begin{aligned} \frac{dy}{dx} &= \frac{x(2xe^{x^2}) - e^{x^2}}{x^2} = 2e^{x^2} - x^{-2}e^{x^2} \\ &= e^{x^2}(2 - x^{-2}) \end{aligned}$$

# Calculus Practice Test With Answers

**Wenbin Ji**

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## **Table of Contents Calculus Practice Test With Answers**

1. Understanding the eBook Calculus Practice Test With Answers
  - The Rise of Digital Reading Calculus Practice Test With Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Calculus Practice Test With Answers
  - 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 Calculus Practice Test With Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus Practice Test With Answers
  - Personalized Recommendations
  - Calculus Practice Test With Answers User Reviews and Ratings
  - Calculus Practice Test With Answers and Bestseller Lists
5. Accessing Calculus Practice Test With Answers Free and Paid eBooks
  - Calculus Practice Test With Answers Public Domain eBooks
  - Calculus Practice Test With Answers eBook Subscription Services
  - Calculus Practice Test With Answers Budget-Friendly Options

6. Navigating Calculus Practice Test With Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Calculus Practice Test With Answers Compatibility with Devices
  - Calculus Practice Test With Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Calculus Practice Test With Answers
  - Highlighting and Note-Taking Calculus Practice Test With Answers
  - Interactive Elements Calculus Practice Test With Answers
8. Staying Engaged with Calculus Practice Test With Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Calculus Practice Test With Answers
9. Balancing eBooks and Physical Books Calculus Practice Test With Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Calculus Practice Test With Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Calculus Practice Test With Answers
  - Setting Reading Goals Calculus Practice Test With Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Calculus Practice Test With Answers
  - Fact-Checking eBook Content of Calculus Practice Test With Answers
  - 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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