

3-3 Study Guide and Intervention

Properties of Logarithms

Properties of Logarithms Since logarithms and exponents have an inverse relationship, they have certain properties that can be used to make them easier to simplify and solve.

If b , x , and y are positive real numbers, $b \neq 1$, and p is a real number, then the following statements are true.

- $\log_b xy = \log_b x + \log_b y$ Product Property
- $\log_b \frac{x}{y} = \log_b x - \log_b y$ Quotient Property
- $\log_b x^p = p \log_b x$ Power Property

Example 1: Evaluate $3 \log_2 8 + 5 \log_2 \frac{1}{2}$.

$$\begin{aligned} 3 \log_2 8 + 5 \log_2 \frac{1}{2} &= 3 \log_2 2^3 + 5 \log_2 2^{-1} \\ &= 3(3 \log_2 2) + 5(-\log_2 2) \\ &= 3(3)(1) + 5(-1)(1) \\ &= 4 \end{aligned}$$

$$8 = 2^3 ; 2^{-1} = \frac{1}{2}$$

Power Property

$$\log_2 x = 1$$

Simplify.

Example 2: Expand $\ln \frac{8x^5}{3y^2}$.

$$\begin{aligned} \ln \frac{8x^5}{3y^2} &= \ln 8x^5 - \ln 3y^2 \\ &= \ln 8 + \ln x^5 - \ln 3 - \ln y^2 \\ &= \ln 8 + 5 \ln x - \ln 3 - 2 \ln y \end{aligned}$$

Quotient Property

Product Property

Power Property

Exercises

1. Evaluate $2 \log_3 27 + 4 \log_3 \frac{1}{3}$.

Expand each expression.

2. $\log_3 \frac{5x^5}{t\sqrt{t^2}}$

$$\log_3 5 + 5 \log_3 x - \frac{2}{3} \log_3 t$$

Condense each expression.

4. $11 \log_9 (x-3) - 5 \log_9 2x$

$$\log_9 \frac{(x-3)^{11}}{32x^5}$$

3. $\log \frac{(a-2)(b+4)^5}{9(b-2)^5}$

$$\log (a-2) + 5 \log (b+4) - \log 9 - 5 \log (b-2)$$

5. $\frac{2}{3} \ln (2h-k) + \frac{1}{5} \ln (2h+k)$

$$\ln \left(\sqrt[3]{(2h-k)^2} \sqrt[5]{(2h+k)^3} \right)$$

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Yi-Tong Ma



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Table of Contents 3 Study Guide And Intervention Properties Of Logarithms Answer Key

1. Understanding the eBook 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - The Rise of Digital Reading 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - 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 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Personalized Recommendations
 - 3 Study Guide And Intervention Properties Of Logarithms Answer Key User Reviews and Ratings
 - 3 Study Guide And Intervention Properties Of Logarithms Answer Key and Bestseller Lists

5. Accessing 3 Study Guide And Intervention Properties Of Logarithms Answer Key Free and Paid eBooks
 - 3 Study Guide And Intervention Properties Of Logarithms Answer Key Public Domain eBooks
 - 3 Study Guide And Intervention Properties Of Logarithms Answer Key eBook Subscription Services
 - 3 Study Guide And Intervention Properties Of Logarithms Answer Key Budget-Friendly Options
6. Navigating 3 Study Guide And Intervention Properties Of Logarithms Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - 3 Study Guide And Intervention Properties Of Logarithms Answer Key Compatibility with Devices
 - 3 Study Guide And Intervention Properties Of Logarithms Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Highlighting and Note-Taking 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Interactive Elements 3 Study Guide And Intervention Properties Of Logarithms Answer Key
8. Staying Engaged with 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 3 Study Guide And Intervention Properties Of Logarithms Answer Key
9. Balancing eBooks and Physical Books 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 3 Study Guide And Intervention Properties Of Logarithms Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Setting Reading Goals 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - Fact-Checking eBook Content of 3 Study Guide And Intervention Properties Of Logarithms Answer Key
 - 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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