

6.2.1 EXERCISES

In Exercises 1 - 15, expand the given logarithm and simplify. Assume when necessary that all quantities represent positive real numbers.

1. $\ln(x^3y^2)$

2. $\log_2\left(\frac{128}{x^2+4}\right)$

3. $\log_5\left(\frac{z}{25}\right)^3$

4. $\log(1.23 \times 10^{37})$

5. $\ln\left(\frac{\sqrt{z}}{xy}\right)$

6. $\log_5(x^2 - 25)$

7. $\log_{\sqrt{2}}(4x^3)$

8. $\log_{\frac{1}{3}}(9x(y^3 - 8))$

9. $\log(1000x^3y^5)$

10. $\log_3\left(\frac{x^2}{81y^4}\right)$

11. $\ln\left(\sqrt[4]{\frac{xy}{ez}}\right)$

12. $\log_6\left(\frac{216}{x^3y}\right)^4$

13. $\log\left(\frac{100x\sqrt{y}}{\sqrt[3]{10}}\right)$

14. $\log_{\frac{1}{2}}\left(\frac{4\sqrt[3]{x^2}}{y\sqrt{z}}\right)$

15. $\ln\left(\frac{\sqrt[3]{x}}{10\sqrt{yz}}\right)$

In Exercises 16 - 29, use the properties of logarithms to write the expression as a single logarithm.

16. $4\ln(x) + 2\ln(y)$

17. $\log_2(x) + \log_2(y) - \log_2(z)$

18. $\log_3(x) - 2\log_3(y)$

19. $\frac{1}{2}\log_3(x) - 2\log_3(y) - \log_3(z)$

20. $2\ln(x) - 3\ln(y) - 4\ln(z)$

21. $\log(x) - \frac{1}{3}\log(z) + \frac{1}{2}\log(y)$

22. $-\frac{1}{3}\ln(x) - \frac{1}{3}\ln(y) + \frac{1}{3}\ln(z)$

23. $\log_5(x) - 3$

24. $3 - \log(x)$

25. $\log_7(x) + \log_7(x - 3) - 2$

26. $\ln(x) + \frac{1}{2}$

27. $\log_2(x) + \log_4(x)$

28. $\log_2(x) + \log_4(x - 1)$

29. $\log_2(x) + \log_{\frac{1}{2}}(x - 1)$

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Table of Contents Practice 8 4 Properties Of Logarithms Answers Pearson Education

1. Understanding the eBook Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - The Rise of Digital Reading Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - 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 Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice 8 4 Properties Of Logarithms Answers Pearson Education

- Personalized Recommendations
 - Practice 8 4 Properties Of Logarithms Answers Pearson Education User Reviews and Ratings
 - Practice 8 4 Properties Of Logarithms Answers Pearson Education and Bestseller Lists
5. Accessing Practice 8 4 Properties Of Logarithms Answers Pearson Education Free and Paid eBooks
 - Practice 8 4 Properties Of Logarithms Answers Pearson Education Public Domain eBooks
 - Practice 8 4 Properties Of Logarithms Answers Pearson Education eBook Subscription Services
 - Practice 8 4 Properties Of Logarithms Answers Pearson Education Budget-Friendly Options
 6. Navigating Practice 8 4 Properties Of Logarithms Answers Pearson Education eBook Formats
 - ePub, PDF, MOBI, and More
 - Practice 8 4 Properties Of Logarithms Answers Pearson Education Compatibility with Devices
 - Practice 8 4 Properties Of Logarithms Answers Pearson Education Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - Highlighting and Note-Taking Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - Interactive Elements Practice 8 4 Properties Of Logarithms Answers Pearson Education
 8. Staying Engaged with Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practice 8 4 Properties Of Logarithms Answers Pearson Education
 9. Balancing eBooks and Physical Books Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice 8 4 Properties Of Logarithms Answers Pearson Education
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - Setting Reading Goals Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Practice 8 4 Properties Of Logarithms Answers Pearson Education

- Fact-Checking eBook Content of Practice 8 4 Properties Of Logarithms Answers Pearson Education
 - 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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