Exercises

6.2.1

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

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

7. 
$$\log_{\sqrt{2}} (4x^3)$$
  
10.  $\log_3 \left(\frac{x^2}{81v^4}\right)$ 

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

8.  $\log_1(9x(y^3-8))$ 

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

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

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

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

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

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

$$z = -\frac{1}{3}\ln(y) + \frac{1}{3}\ln(z)$$

23. 
$$\log_5(x) - 3$$

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

25 
$$\log_{-}(x) + \log_{-}(x-3) = 2$$

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
  - o 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
  - o ePub, PDF, MOBI, and More
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  - 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
  - $\circ$  Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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