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

# **Practice 8 4 Natural Logarithms Answers**

**David Kirk** 

## Decoding Practice 8 4 Natural Logarithms Answers: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Practice 8 4 Natural Logarithms Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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