

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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David S. Kahn



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Teaching Mathematics in Secondary and Middle School James S. Cangelosi,1992 **Video Source Book** ,2008

Attacking Problems in Logarithms and Exponential Functions David S. Kahn,2015-10-21 Concise review of what high school and beginning college students need to know to solve problems in logarithms and exponential functions Presents rigorously tested examples and coherent explanations in an easy to follow format 2015 edition **Logarithms** Rumi Michael Leigh,2022-10-04 Logarithms Things You Should Know Questions and Answers explains logarithms through a step by step question and answer format The book covers the laws of logarithms common and natural logs and how logarithms connect with exponents It also includes change of base solving equations and calculator use Exercises with answers allow practice from basic problems to more advanced applications This book will interest students math learners and exam candidates who want to study logarithms in algebra **Five-figure Logarithmic and Other Tables** Frank Castle,1937

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