

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

Practice 8 4 Properties Of Logarithms Answer Key

**George Ehrenhaft, Robert L.
Lehrman, Fred Obrecht, Allan Mundsack**

Practice 8 4 Properties Of Logarithms Answer Key:

A Beginner's Guide to Discrete Mathematics W.D. Wallis, 2013-03-14 This text is a basic introduction to those areas of discrete mathematics used by students of mathematics and computer science. Introductory courses on this material are now standard at many colleges and universities. Usually these courses are of one semester's duration and usually they are offered at the sophomore level. Very often this will be the first course where the students see several real proofs. The preparation of the students is very mixed and one cannot assume a strong background. In particular the instructor should not assume that the students have seen a linear algebra course or any introduction to number systems that goes beyond college algebra. In view of this I have tried to avoid too much sophistication while still retaining rigor. I hope I have included enough problems so that the student can reinforce the concepts. Most of the problems are quite easy with just a few difficult exercises scattered through the text. If the class is weak a small number of sections will be too hard while the instructor who has a strong class will need to include some supplementary material. I think this is preferable to a book at a higher mathematical level which will scare away weaker students. *Mastering Calculus through Practice* Bárbara de Holanda Maia Teixeira, Edmundo Capelas de Oliveira, 2022-01-01 This textbook covers key topics of Elementary Calculus through selected exercises in a sequence that facilitates development of problem solving abilities and techniques. It opens with an introduction to fundamental facts of mathematical logic, set theory and pre-calculus extending toward functions, limits, derivatives and integrals. Over 300 solved problems are approached with a simple direct style ordered in a way that positively challenges students and helps them build self-confidence as they progress. A special final chapter adds five carefully crafted problems for a comprehensive recap of the work. The book is aimed at first year students of fields in which calculus and its applications have a role including Science, Technology, Engineering, Mathematics, Economics, Architecture, Management and Applied Social Sciences as well as students of Quantitative Methods courses. It can also serve as rich supplementary reading for self study.

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Applied Mathematics for Business, Economics, Life Sciences, and Social Sciences Raymond A. Barnett, Michael R. Ziegler, Karl E. Byleen, 2000 Written in a student friendly format this text prepares students to understand finite mathematics and calculus used in a wide range of disciplines Covering relevant topics from finance linear algebra programming and probability the Seventh Edition places emphasis on computational skills ideas and problem solving Other highlights include a rich variety of applications and integration of graphing calculators

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