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

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

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

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

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

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

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

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

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

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

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

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 Answers

Edwin Edser

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Algebra II Exercise Book Reza Nazari,Ava Ross,2019-04-25 This Algebra workbook s new edition has been updated to replicate questions appearing on the most recent Algebra II test Here is intensive preparation for the Algebra II course and a precious learning tool for Algebra takers who need extra practice in math to raise their Algebra II scores After completing this workbook you will have solid foundation and adequate practice that is necessary to ace the Algebra II Test This workbook is your ticket to score higher on Algebra II test The updated version of this hands on workbook represents extensive exercises math problems sample Algebra II questions and quizzes with answers and detailed solutions to help you hone your math skills overcome your exam anxiety and boost your confidence and do your best to defeat Algebra II exam on test day Each of math exercises is answered in the book which will help you find your weak areas and raise your scores This is a unique and perfect practice book to beat the Algebra II Test Separate math chapters offer a complete review of the Algebra course including Equations and Inequalities Quadratic Functions and System of Equations Polynomial Operations Functions and their applications Imaginary Numbers Matrices and Matrix Equations Exponential and Logarithmic Functions Trigonometric Functions and many more Algebra II topics The surest way to succeed on Algebra II is with intensive practice in every math topic tested and that s what you will get in Algebra II Exercise Book Each chapter of this focused format has a comprehensive review created by Math experts that goes into detail to cover all of the content likely to appear on the Algebra II test Effortless Math Workbook for the Algebra II contains many exciting and unique features to help you improve your Algebra scores including Content 100% aligned with the Algebra II courses Written by experienced Math tutors and test experts Complete coverage of all Algebra II concepts and topics which you will be tested Over 2 500 additional Algebra II math practice questions in both multiple choice and grid in formats with answers grouped by topic so you can focus on your weak areas Abundant Math skill building exercises to help you approach different question types that might be unfamiliar to you Exercises on different Algebra II topics such as equations polynomials exponents and radicals functions etc This Algebra II Workbook and other Effortless Math Education books are used by thousands of students each year to help them review core content areas brush up in math discover their strengths and weaknesses and achieve their best scores on the Algebra test Get ready for the Algebra II Test with a PERFECT Workbook Published By Effortless Math Education www EffortlessMath com **Precalculus** Cynthia Y. Young,2023-05-16 Cynthia Young s Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision the author focuses on the most difficult topics in precalculus bringing clarity to challenging learning objectives **New York Math: Math B** ,2000 *Calculus* Carl V. Lutzer,H. T. Goodwill,2011-08-24 Students and math professors looking for a calculus resource that sparks curiosity and engages them will appreciate this new book Through demonstration and exercises it shows them how to read equations It uses a blend of

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