

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 Answers

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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 a 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.

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Calculus Problems Marco Baronti, Filippo De Mari, Robertus van der Putten, Irene Venturi, 2016-11-01 This book intended as a practical working guide for calculus students includes 450 exercises It is designed for undergraduate students in Engineering Mathematics Physics or any other field where rigorous calculus is needed and will greatly benefit anyone seeking a problem solving approach to calculus Each chapter starts with a summary of the main definitions and results which is followed by a selection of solved exercises accompanied by brief illustrative comments A selection of problems with indicated solutions rounds out each chapter A final chapter explores problems that are not designed with a single issue in mind but instead call for the combination of a variety of techniques rounding out the book s coverage Though the book s primary focus is on functions of one real variable basic ordinary differential equations separation of variables linear first order and constant coefficients ODEs are also discussed The material is taken from actual written tests that have been delivered at the Engineering School of the University of Genoa Literally thousands of students have worked on these problems ensuring their real world applicability

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Dulan, 2010-06-11 Helpful practice tests for acing the fastest growing standardized exam The ACT is growing into the most preferred entrance exam by colleges and universities across the country So if you want to get into the school of your choice you need to achieve your best score on the ACT You need the experts on your side McGraw Hill s 10 Practice ACTs offers the most ACT practice available anywhere It includes 10 complete sample ACTs with in depth explanatory answers for every question that act as a mini review for ACT test topics NEW Eye catching 8 page Welcome section including 50 Top Strategies for Test Day ACT Study Plan Getting the Most from the Tests Using Online Resources and more NEW Free access to more

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Functions Modeling Change, Student Study Guide Eric Connally, Andrew M. Gleason, Philip Cheifetz, Brigitte Lahme, Carl Swenson, Deborah Hughes-Hallett, Frank Avenoso, Selin Kalaycıoğlu, Pat Shure, Katherine Yoshiwara, Ann Davidian, 2000-05-02 From the Calculus Consortium based at Harvard University this comprehensible book prepares readers for the study of calculus presenting families of functions as models for change These materials stress conceptual understanding and multiple ways of representing mathematical ideas

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