

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

Lesson 4 3 Logarithmic Functions Practice A

Sue Michell



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Barron's Math 360: A Complete Study Guide to Pre-Calculus with Online Practice Barron's Educational Series, Lawrence S. Leff, Christina Pawlowski-Polanish, 2021-09-07 Barron's Math 360 Pre Calculus is your complete go to guide for everything pre calculus This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find Comprehensive Content Review Begin your study with the basic building blocks of pre calculus and build as you go Topics include algebraic methods functions and graphs complex numbers polynomial and rational functions and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come *Eureka Math Algebra II Study Guide* Great Minds, 2016-06-29 The team of teachers and mathematicians who created Eureka Math believe that it's not enough for students to know the process for solving a problem they need to know why that process works That's why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We're here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more *Algebra 2, Homework Practice Workbook* McGraw-Hill Education, 2008-12-10 The Homework Practice Workbook contains two worksheets for every lesson in the Student Edition This workbook helps students Practice the skills of the lesson Use their skills to solve word problems *Eureka Math Precalculus Study Guide* Great Minds, 2016-07-14 The team of teachers and mathematicians who created Eureka Math believe that it's not enough for students to know the process for solving a problem they need to know why that process works That's why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users

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solving more accessible and meaningful for students The theoretical underpinnings of concept mapping and of the studies in the book include Ausubel s cognitive theory of meaningful learning constructivist and Vygotskian psychology to name a few There is evidence particularly from international studies such as PISA and TIMSS and mathematics education research which suggest that students mathematical literacy and problem solving skills can be enhanced through students collaborating and interacting as they work discuss and communicate mathematically This book proposes the meta cognitive strategy of concept mapping as one viable means of promoting communicating and explicating students mathematical thinking and reasoning publicly in a social setting e g mathematics classrooms as they engage in mathematical dialogues and discussions Concept Mapping in Mathematics Research into Practice is of interest to researchers graduate students teacher educators and professionals in mathematics education

Precalculus Ron Larson, Robert P. Hostetler, 2003-01-29 Roadmap to the Virginia SOL Princeton Review (Firm), 2005

Ventures Level 4 Teacher's Edition with Assessment Audio CD/CD-ROM Gretchen Bitterlin, Dennis Johnson, Donna Price, Sylvia Ramirez, 2013-07-12 Ventures 2nd Edition is a six level standards based ESL series for adult education ESL The Ventures 2nd Edition interleaved Level 4 Teacher s Edition includes easy to follow lesson plans for every unit It offers tips and suggestions for addressing common areas of difficulty for students as well as suggested expansion activities for improving learner persistence The Teacher s Edition also explains where to find additional practice in other Ventures components such as the Workbook Online Teacher s Resource Room and Student Arcade Multi skill unit midterm and final tests are found in the back of the Teacher s Edition Also includes an Assessment CD CD ROM which contains audio for each test as well as all the tests in a customizable format

Rules of the Mind John R. Anderson, 2014-01-14 Related to the earlier well known ACT production system theory this book s basic goal is to present evidence for the psychological reality of a production system model of mind Distinguished from the original theory in three ways this volume uses the rational analyses of Anderson 1990 to improve upon that theory and extend its scope It also relates the theory to a great deal of new data on the performance and acquisition of cognitive skills The new theory ACT R involves a neurally plausible implementation of a production system architecture Rational analysis is used to structure and parameterize the system to yield optimal information processing The theory is applicable to a wide variety of research disciplines including memory problem solving and skill acquisition Using intelligent tutors much of the data is concerned with the acquisition of cognitive skills The book provides analyses of data sets describing the extended course of the acquisition of mathematical and computer programming skills

10th Annual Conference Cognitive Science Society Pod Cognitive Science Society, 2019-10-30 First Published in 1988 A collection of papers presentations and poster summaries from the tenth annual conference of the Cognitive Science Society in Montreal Canada August 1988

Prentice Hall New York Math: Math B, 2001

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electrons outside the nucleus b they have different atomic number o c they have different numbers of neutrons in the nucleus
d more than one response is correct e they have different numbers of protons in the nucleus