

## 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 Natural Logarithms Answers

**Reza Nazari, Ava Ross**



## **Practice 8 4 Natural Logarithms Answers:**

**Cambridge IGCSE® and O Level Additional Mathematics Practice Book** Muriel James, 2018-03-15 These resources have been created for the Cambridge IGCSE and O Level Additional Mathematics syllabuses 0606 4037 for first examination from 2020 The Cambridge IGCSE and O Level Additional Mathematics Practice Book works alongside the coursebook to provide students with extra materials so they can practise the required syllabus skills The exercises have further worked examples to help students approach the questions within Answers are provided in the back of the book **Prentice Hall Math Algebra 2 Study Guide and Practice Workbook 2004c** Prentice-Hall Staff, 2003-12 Prentice Hall Mathematics offers comprehensive math content coverage introduces basic mathematics concepts and skills and provides numerous opportunities to access basic skills along with abundant remediation and intervention activities *CLEP College Algebra Exercise Book 2020-2021* Reza Nazari, 2020-07-06 Get ready for the CLEP College Algebra Test with a PERFECT Math Workbook CLEP College Algebra Exercise Book 2020 2021 which reflects the 2020 2021 test guidelines represents extensive exercises math problems sample CLEP College Algebra questions and quizzes with answers and detailed solutions to help you hone your math skills overcome your exam anxiety boost your confidence and do your best to ace the CLEP College Algebra test The surest way to succeed on the CLEP College Algebra Test is with intensive practice in every math concept tested and that's what you will get in CLEP College Algebra Exercise Book 2020 2021 Not only does this comprehensive exercise book review all math topics you will need to defeat the CLEP College Algebra test but it also offers two full length and realistic CLEP College Algebra tests that reflect the format and question types on the CLEP College Algebra to help you check your exam readiness and identify where you need more practice This comprehensive exercise book for the CLEP College Algebra test contains many exciting and unique features to help you improve your test scores including Content 100% aligned with the 2020 CLEP College Algebra test Complete coverage of all CLEP College Algebra concepts and topics which you will be tested Numerous CLEP College Algebra 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 test takers approach different question types that might be unfamiliar to them 2 full length practice tests featuring new question types with detailed answers CLEP College Algebra Exercise Book 2020 2021 and other Effortless Math Education books are used by thousands of test takers 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 CLEP College Algebra test Recommended by Test Prep Experts Visit [www.EffortlessMath.com](http://www.EffortlessMath.com) for Online Math Practice *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 **CLEP College Algebra Exercise Book** Reza Nazari, Ava

Ross,2019-04-29 Do NOT take the CLEP College Algebra test without reviewing the Math questions in this workbook CLEP College Algebra Exercise book which reflects the 2019 test guidelines and topics is dedicated to preparing test takers to ace the CLEP College Algebra Test This CLEP College Algebra workbook s new edition has been updated to replicate questions appearing on the most recent CLEP College Algebra tests Here is intensive preparation for the CLEP College Algebra test and a precious learning tool for test takers who need extra practice in math to raise their CLEP College Algebra scores After completing this workbook you will have solid foundation and adequate practice that is necessary to ace the CLEP College Algebra test This workbook is your ticket to score higher on CLEP College Algebra The updated version of this hands on workbook represents extensive exercises math problems sample CLEP 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 CLEP exam on test day Each of math exercises is answered in the book and we have provided explanation of the answers for the two full length CLEP College Algebra practice tests as well which will help test takers find their weak areas and raise their scores This is a unique and perfect practice book to beat the CLEP College Algebra Test Separate math chapters offer a complete review of the CLEP College Algebra test including Arithmetic and Number Operations Algebra and Functions Geometry and Measurement Data analysis Statistics Probability and also includes two full length practice tests The surest way to succeed on CLEP College Algebra Test is with intensive practice in every math topic tested and that s what you will get in CLEP College Algebra Exercise Book Each chapter of this focused format has a comprehensive review created by Test Prep experts that goes into detail to cover all of the content likely to appear on the CLEP College Algebra test Not only does this all inclusive workbook offer everything you will ever need to conquer CLEP College Algebra test it also contains two full length and realistic CLEP College Algebra tests that reflect the format and question types on the CLEP to help you check your exam readiness and identify where you need more practice Effortless Math Workbook for the CLEP Test contains many exciting and unique features to help you improve your test scores including Content 100% aligned with the 2019 CLEP test Written by CLEP College Algebra tutors and test experts Complete coverage of all CLEP College Algebra concepts and topics which you will be tested Over 2 500 additional CLEP College Algebra 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 test takers approach different question types that might be unfamiliar to them Exercises on different CLEP College Algebra topics such as integers percent equations polynomials exponents and radicals 2 full length practice tests featuring new question types with detailed answers This CLEP College Algebra 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 CLEP test Get ready for the CLEP College Algebra Test with a PERFECT Math Workbook Published By Effortless Math Education [www.EffortlessMath.com](http://www.EffortlessMath.com) *Basic Engineering*

*Mathematics* John Bird, 2013-06-17 Unlike most engineering maths texts this book does not assume a firm grasp of GCSE maths and unlike low level general maths texts the content is tailored specifically to the needs of engineers The result is a unique book written for engineering students that takes a starting point below GCSE level Basic Engineering Mathematics is therefore ideal for students of a wide range of abilities especially for those who find the theoretical side of mathematics difficult Now in its fifth edition Basic Engineering Mathematics is an established textbook with the previous edition selling nearly 7500 copies All students that require a fundamental knowledge of mathematics for engineering will find this book essential reading The content has been designed primarily to meet the needs of students studying Level 2 courses including GCSE Engineering the Diploma and the BTEC First specifications Level 3 students will also find this text to be a useful resource for getting to grips with essential mathematics concepts because the compulsory topics in BTEC National and A Level Engineering courses are also addressed

Calculus: A Historical Approach W.M. Priestley, 2012-12-06 This book is for students being introduced to calculus and it covers the usual topics but its spirit is different from what might be expected Though the approach is basically historical in nature emphasis is put upon ideas and their place not upon events and their dates Its purpose is to have students to learn calculus first and to learn incidentally something about the nature of mathematics Somewhat to the surprise of its author the book soon became animated by a spirit of opposition to the darkness that separates the sciences from the humanities To fight the spell of that darkness anything at hand is used even a few low tricks or bad jokes that seemed to offer a slight promise of success To lighten the darkness to illuminate some of the common ground shared by the two cultures is a goal that justifies almost any means It is possible that this approach may make calculus more fun as well Whereas the close ties of mathematics to the sciences are well known the ties binding mathematics to the humanities are rarely noticed The result is a distorted view of mathematics placing it outside the mainstream of liberal arts studies This book tries to suggest gently from time to time where a kinship between mathematics and the humanities may be found

Text-book of practical logarithms and trigonometry John Henry Palmer (head schoolmaster, R.N.), 1903

**Essential Mathematics for College Students** Arnold R. Steffensen, L. Murphy Johnson, 1992      **Understanding Algebra and Trigonometry** Gene R. Sellers, 1979      **American Electrician**, 1903      **A Complete Epitome of Practical Navigation and Nautical Astronomy, Containing All Necessary Instructions for Keeping a Ship's Reckoning at Sea** John William Norie, 1900      **Integrated Mathematics** Holt McDougal, 1998      English Mechanic and World of Science, 1871      **The Circle of the Sciences** Encyclopaedias, 1873      **Understanding College Algebra** Gene R. Sellers, 1979

**The Circle of the Sciences** James Wylde, 1862      English Mechanic and Mirror of Science and Art, 1892

Intermediate Algebra John Tobey, Jr., Jeffrey Slater, 2005-02      Key to the Branom Practice Tests in Geography Mendel Everett Branom, 1926

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