

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

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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 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

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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

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

American Electrician, 1903

Understanding Algebra and Trigonometry Gene R. Sellers, 1979

English Mechanic and World of Science, 1871

The Circle of the Sciences Encyclopaedias, 1873

[The Circle of the Sciences](#) James Wylde, 1862

English Mechanic and Mirror of Science and Art, 1892

[Understanding College Algebra](#) Gene R. Sellers, 1979

Integrated Mathematics Holt McDougal, 1998

[Catalogue of the Printed Books in the Library of the Faculty of Advocates](#) Samuel Halkett, Jⁿ A. Hjaltaⁿ, Thomas Hill Jamieson, 1874

Circuit Analysis Irving L. Kosow, 1988

Engineering educators generally agree that the important insights into theoretical material are gained through the solution of problems the qualitative portions of the subject are easier

understood once the quantitative aspects are mastered This text adopts this approach by encouraging students to develop problem solving skills while breaking the formula habit wherein students merely solve problems by plugging in numbers Instead worked examples and problems have been selected to develop insight and confidence Text examples and problems are often recycled providing alternative solution methods to reinforce comprehension of circuit analysis concepts In addition as new examples are presented and solved the underlying concepts are summarized to ensure and enhance student understanding

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