

## 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

**James Wylde**



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

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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      **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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