

## 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

**Raymond A. Barnett**



## **Practice 8 4 Properties Of Logarithms Answers:**

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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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**Intermediate Algebra** Arnold R. Steffensen,L. Murphy Johnson,1987 Essential Mathematics: a Modern Approach Mervin Laverne Keedy,Marvin L. Bittinger,1972 Covers arithmetic algebra numerical trigonometry and slide rule

*Intermediate Algebra* Tom Green, Thomas M. Green, William Wooton, 1980      *Encyclopaedia Perthensis; Or Universal Dictionary of the Arts, Sciences, Literature, &c. Intended to Supersede the Use of Other Books of Reference* ,1816

**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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