

# Logarithm Study Guide

Rewrite in exponential form:

#1  $\log_3 x = 4$

$3^4 = x$

#2  $\log_x 8 = 3$

$x^3 = 8$

#3  $\log 100 = x$

$10^x = 100$

Rewrite in logarithmic form:

#4  $x^2 = 51$

$\log_x 51 = 2$

#5  $5^{x+3} = 18$

$\log_5 (18) = x+3$

#6  $x^p = p$

$\log_x p = p$

Evaluate:

#7  $4\log_2 (12 - 3) + 4$

$4[\log_2 (9)] + 4$

$4(2) + 4$

$\boxed{12}$

#8  $-8 + [\log_4 16]$

$-8 + (2)$

$\boxed{-6}$

Estimate the value of the following:

#9  $\log_2 11$

$2^1 = 2$

$2^2 = 4$

$2^3 = 8$

$2^4 = 16$

$\approx 3.4[\log_2 11]$

$\approx 3.4$

#10  $\log_5 100$

$5^1 = 5$

$5^2 = 25$

$5^3 = 125$

$\approx 2.7[\log_5 100]$

$\approx 2.7$

Solve:

#11  $5\log_5 (81) = 10x + 25$

$5(4) = 10x + 25$

$20 = 10x + 25$

$-25$

$-5 = 10x$

$\frac{-5}{10} = \frac{10x}{10}$

$\boxed{-\frac{1}{2} = x}$

#12  $-6 + \log_{12}(x-5) = -6$

DR:

$x-5 > 0$

$x > 5$

$-6 + \log_{12}(x-5) = -6$

$+6$

$\log_{12}(x-5) = 0$

$12^0 = x-5$

$1 = x-5$

$+5$

$\boxed{6 = x}$

# Algebra 2 Study Guide Answer Key

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## **Algebra 2 Study Guide Answer Key:**

*Algebra 2* Miriam A. Leiva,1997      Educational Advisory Manual United States. War Department. Information and Education Division,1945      **Algebra 2: Explorations and Applications** Holt McDougal,2003-01      **Rules and examples in algebra. 2 pt. [and] Key** Thomas Dalton,1874      **Algebra 2 Chapter 13 Resource Masters** McGraw-Hill Staff,2002-05      *CliffsTestPrep California High School Exit Exam-Mathematics* Jerry Bobrow,2004-11-12 The CliffsTestPrep series offers full length practice exams that simulate the real tests proven test taking strategies to increase your chances at doing well and thorough review exercises to help fill in any knowledge gaps CliffsTestPrep California High School Exit Exam Mathematics can help you pass this critical competency exam necessary for high school graduation More and more high schools are requiring exit exams in order to ensure that all students graduate with a thorough knowledge of state standards in mathematics This easy to use CAHSEE Mathematics Preparation Guide gives you that extra edge with Three full length practice tests Samples and strategies for all question types Analysis of each exam area Answers to common questions about the test Glossaries for arithmetic algebra geometry and units of measure This book will help you understand the types of questions that will test your knowledge of state standards from grades six and seven and Algebra I In addition you ll hone your knowledge of subjects such as Basic math including arithmetic rational numbers and fractions Statistics including statistical measurements data samples and probabilities Geometry including measurements shapes and the Pythagorean Theorem Algebra and functions including powers and simple roots graphing and linear equations Mathematical reasoning including strategies skills and concepts to solve problems With guidance from the CliffsTestPrep series you ll feel at home in any standardized test environment      El-Hi Textbooks and Serials in Print ,2006      The Publishers' Trade List Annual ,1904

**Resources in Education** ,1981      **Calculus, Student Study Guide** Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,Daniel E. Flath,David O. Lomen,David Lovelock,Jeff Tecosky-Feldman,Thomas W. Tucker,Joseph Thrash,Karen R. Rhea,Andrew Pasquale,Sheldon P. Gordon,Douglas Quinney,Patti Frazer Lock,1999-03-30 A revision of the best selling innovative Calculus text on the market Functions are presented graphically numerically algebraically and verbally to give readers the benefit of alternate interpretations The text is problem driven with exceptional exercises based on real world applications from engineering physics life sciences and economics Revised edition features new sections on limits and continuity limits l Hopital s Rule and relative growth rates and hyperbolic functions      *El-Hi Textbooks & Serials in Print, 2005* ,2005      **El-Hi Textbooks in Print** ,1984      Subject Guide to Books in Print ,2001

**Forthcoming Books** Rose Army,2003      *Christian Home Educators' Curriculum Manual* Cathy Duffy,1997-11

*USAFI Standard Nomenclature List* United States Armed Forces Institute,1953      *Books in Print* ,1994      **El-Hi Textbooks & Serials in Print, 2003** ,2003      *Books in Print Supplement* ,2002      *Study Guide to Accompany Microeconomics* Yaw Nyarko,2001

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