

Exponential and Logarithmic Functions: **APPT**



The graph shows the function:

$$f(x) = 2^x$$

1. Graph the inverse:

$$f^{-1}(x) = \log_2(x)$$

State the domain and

range of each.

$f(x) = 2^x$

Domain: $(-\infty, \infty)$

Range: $(0, \infty)$

Change: $2^{x+1} = 2 \cdot 2^x$

$f^{-1}(x) = \log_2(x)$

Domain: $(0, \infty)$

Range: $(-\infty, \infty)$

Change: $\log_2(2x) = \log_2(x) + 1$

Multiple Choice: Choose the equivalent equation or expression for each.

1. $2^3 = 8$ can be rewritten as _____

(A) $\log_2 8 = 3$

(C) $\log_2 8 = 2$

Answer:

(B) $\log_2 3 = 8$

(D) $\log_2 3 = 2$

2. $\log_2 16 = 4$ can be rewritten as _____

(A) $2^4 = 16$

(C) $2^4 = 4$

Answer:

(B) $2^4 = 4$

(D) $2^4 = 16$

3. $2^3 = 8$ is equivalent to $2^4 = 16$

(A) $\log_2(16) = \log_2(8)$

(C) $4 = \log_2(8)$

Answer:

(B) $\log_2(4) = \log_2(8)$

(D) $4 = \log_2(16)$

4. $\log_2(16) = 4$ is equivalent to $\log_2(8) = 3$

(A) $\log_2(16) = \log_2(8)$

(C) $\log_2(4) = \log_2(8)$

Answer:

(B) $\log_2(4) = 3$

(D) $\log_2(4) = 4$

Logarithmic Functions Precalculus Hs Mathematics Unit

Lesson 01

Daniel M. Fendel



Logarithmic Functions Precalculus Hs Mathematics Unit Lesson 01:

Teaching and Learning High School Mathematics Charlene E. Beckmann, Denisse R. Thompson, Rheta N.

Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of

Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation [Eureka Math Algebra II Study Guide](#) Great Minds,2016-08-15 The team of teachers and mathematicians who created Eureka Math believe that it s not enough for students to know the process for solving a problem they need to know why that process works That s why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We re here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more [Teaching Mathematics in Secondary and Middle School](#) James S. Cangelosi,1992 *Resources for Preparing Middle School Mathematics Teachers* Cheryl Beaver,Laurie J. Burton,Maria Gueorguieva Gargova Fung,Klay Kruczek,2013 Cheryl Beaver Laurie Burton Maria Fung Klay Kruczek editors Cover *Interactive Mathematics Program* Daniel M. Fendel,1999 [Calculus: Early Transcendentals](#) Dennis G. Zill,Zill,Warren S. Wright,2009-12-11 Appropriate for the traditional three term college calculus course *Calculus Early Transcendentals Fourth Edition* provides the student friendly presentation and robust examples and problem sets for which Dennis G Zill is known This outstanding revision incorporates all of the exceptional learning tools that have made Zill s texts a resounding success He carefully blends the theory and application of important concepts while offering modern applications and problem solving skills Click here to learn more about WebAssign and view a sample assignment Available with WebAssign View sample assignment here Includes a balance of skill and concepts in the exercises that are at a graded level of difficulty Each exercise set is clearly partitioned into groups of problems using headings such as Fundamentals Applications Mathematical Models Projects Calculator CAS Problems etcEach chapter opens with its own table of contents and an introduction to the material covered in the chapter The text ends with Resource Pages which is a compact review of basic concepts from algebra geometry trigonometry and calculus Many of the topics cover in the Resources Page are discussed in greater depth in the Student Resources Guide The Test Yourself section is a self test consisting of 56 questions on four broad areas of precalculus and encourages students to review the more essential prerequisite subjects that are used throughout the text Notes from the Classroom sections are informal discussions that are aimed at the student and discuss common algebraic procedural and notational errors as well as provide advice and questions asking students to think

about and extend upon the ideas just presented Instructor s resources include a complete solutions manual and test items Introduces calculus concepts and topics in a clear concise manner for maximum student retention Straightforward exposition at a level accessible to today s college students Includes examples and applications ideal for science and engineering students Concise reasoning behind every calculus concept is presented This text is intended for the 3 term calculus sequence offered at most colleges and universities 2011 994 pages

A Fresh Start for Collegiate Mathematics Nancy Baxter Hastings, Florence S. Gordon, Sheldon P. Gordon, Jack Narayan, 2006 This volume is an outcome of the NSF funded conference Rethinking the Preparation for Calculus which took place in Washington DC in October 2001 P vi

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Introduction to Logarithms Adrian Harrison, 2019-08-02 Introduction to Logarithms This book is a part of Easy mathematics series which was prepared by Adrian Harrison to help students enhance their knowledge of math This series of books include the pre calculus and calculus topics Introduction to logarithms was written for those people who are interested in learning logarithms and do not have necessarily previous knowledge of it This book adopts a simple and practical approach to describe the logarithm and has been prepared for the beginners to help them understand the basic concepts of it There are an explanation examples with solution and working test part which will help you to enhance your knowledge of mathematical thinking

DEFINITION PROPERTIES INVERSE OF A LOGARITHM FUNCTION TEST WITH SOLUTIONS WORKBOOK TESTS *Exponential and Logarithmic Functions* Charles C. Carico, 1974-01-01 Logarithms and Exponentials Essential Skills Practice Workbook with Answers Chris McMullen, 2020-07-27 Master essential logarithm and exponential skills through helpful explanations instructive examples and plenty of practice exercises with answers Authored by experienced teacher Chris McMullen Ph D this self study math workbook covers logarithms of various bases and natural logarithms the change of base formula logarithm rules like the sum and difference formulas exponential functions hyperbolic functions and their inverses graphs of logarithms exponentials and hyperbolic functions a concise review of exponents in the first chapter Euler s number applications such as population growth continuously compounded interest and radioactive nuclear decays an introduction to complex numbers in the last chapter an optional chapter covering the calculus of logarithms exponentials and hyperbolic functions The author Chris McMullen Ph D has over twenty years of experience teaching math skills to physics students He prepared this workbook of the Improve Your Math Fluency series to share his strategies for working with logarithms and exponentials

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