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Exponential and Logarithmic Functions

Outline

- 6.1 Composite Functions
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- 6.6 Logarithmic and Exponential Equations
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 - Cumulative Review
 - Chapter Projects

Depreciation of Cars

You are ready to buy that first new car. You know that cars lose value over time due to depreciation and that different cars have different rates of depreciation. So you will research the depreciation rates for the cars you are thinking of buying. After all, the lower the depreciation rate is, the more the car will be worth each year.



— See the Internet-based Chapter Project I —



◁ A Look Back Until now, our study of functions has concentrated on polynomial and rational functions. These functions belong to the class of **algebraic functions**, that is, functions that can be expressed in terms of sums, differences, products, quotients, powers, or roots of polynomials. Functions that are not algebraic are termed **transcendental** (they transcend, or go beyond, algebraic functions).

A Look Ahead ▷ In this chapter, we study two transcendental functions: the exponential function and the logarithmic function. These functions occur frequently in a wide variety of applications, such as biology, chemistry, economics, and psychology.

The chapter begins with a discussion of composite, one-to-one, and inverse functions, concepts needed to see the relationship between exponential and logarithmic functions.

Chapter 6 Exponential And Logarithmic Functions

**Roland E Larson, Dianna L.
Zook, Robert P. Hostetler**



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Pre-Calculus: 1001 Practice Problems For Dummies (+ Free Online Practice) Mary Jane Sterling, 2022-06-01

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Bivens, Stephen Davis, 2021-11-02 In the newly revised Twelfth Edition of Calculus an expert team of mathematicians delivers a rigorous and intuitive exploration of calculus introducing polynomials rational functions exponentials logarithms and trigonometric functions late in the text Using the Rule of Four the authors present mathematical concepts from verbal algebraic visual and numerical points of view The book includes numerous exercises applications and examples that help readers learn and retain the concepts discussed within **Calculus Single Variable** Howard Anton, Irl C. Bivens, Stephen

Davis, 2012-02-20 The 10th edition of Calculus Single Variable continues to bring together the best of both new and traditional curricula in an effort to meet the needs of even more instructors teaching calculus **Larson A& T Study & Sols Guide 3ed** Roland E. Larson, Dianna L. Zook, Robert P. Hostetler, 1993 Study and Solutions Guide for College Algebra Roland E Larson, Dianna L. Zook, Robert P. Hostetler, 1989 **Trigonometry Student's Solutions Manual** Marvin L. Bittinger, Judith A. Beecher, David J. Ellenbogen, Judith A. Penna, 2001 *College Algebra* Raymond A. Barnett, 1979

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College Algebra Michael D. Grady, 1988 **Trigonometry** Louis Leithold, 1989 **Algebra & Trigonometry** Michael Sullivan, 2004

Intended for courses in College Algebra Algebra and Trigonometry Precalculus and Trigonometry which require student use of a graphing calculator

College Trigonometry Richard N. Aufmann, Vernon C. Barker, Richard Nation, 2001-07-18

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College Algebra Michael Sullivan, Michael Sullivan, III, 2000-08 The goal of this book is to motivate users by highlighting real people facing real challenges finding real solutions This book features real workers at Motorola along with hundreds of applications and real data sets highlighting the relevance and scope of activities that may be encountered in life Users are expected to find functions that fit the data and both construct and implement elementary mathematical models

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