

Chapter 3 Exponential and Logarithmic Functions

Course Number

Instructor

Date

Section 3.1 Exponential Functions and Their Graphs

Objective: In this lesson you learned how to recognize, evaluate, and graph exponential functions.

Important Vocabulary Define each term or concept.

Transcendental functions Functions that are not algebraic.

Natural base e The irrational number $e \approx 2.718281828 \dots$

I. Exponential Functions (Page 184)

Polynomial functions and rational functions are examples of _____ algebraic _____ functions.

The exponential function f with base a is denoted by _____ $f(x) = a^x$ _____, where $a > 0$, $a \neq 1$, and x is any real number.

Example 1: Use a calculator to evaluate the expression $5^{2/5}$.
2.626527804

What you should learn
How to recognize and evaluate exponential functions with base a

II. Graphs of Exponential Functions (Pages 185–187)

For $a > 1$, is the graph of $f(x) = a^x$ increasing or decreasing over its domain? _____ Increasing _____

For $a > 1$, is the graph of $g(x) = a^{-x}$ increasing or decreasing over its domain? _____ Decreasing _____

For the graph of $y = a^x$ or $y = a^{-x}$, $a > 1$, the domain is _____ $(-\infty, \infty)$ _____, the range is _____ $(0, \infty)$ _____, and the intercept is _____ $(0, 1)$ _____. Also, both graphs have _____ the x -axis _____ as a horizontal asymptote.

Example 2: Sketch the graph of the function $f(x) = 3^{-x}$.

What you should learn
How to graph exponential functions with base a



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Table of Contents Chapter 3 Exponential And Logarithmic Functions

1. Understanding the eBook Chapter 3 Exponential And Logarithmic Functions
 - The Rise of Digital Reading Chapter 3 Exponential And Logarithmic Functions
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 3 Exponential And Logarithmic Functions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 3 Exponential And Logarithmic Functions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 3 Exponential And Logarithmic Functions
 - Personalized Recommendations
 - Chapter 3 Exponential And Logarithmic Functions User Reviews and Ratings
 - Chapter 3 Exponential And Logarithmic Functions and Bestseller Lists
5. Accessing Chapter 3 Exponential And Logarithmic Functions Free and Paid eBooks
 - Chapter 3 Exponential And Logarithmic Functions Public Domain eBooks
 - Chapter 3 Exponential And Logarithmic Functions eBook Subscription Services
 - Chapter 3 Exponential And Logarithmic Functions Budget-Friendly Options

6. Navigating Chapter 3 Exponential And Logarithmic Functions eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 3 Exponential And Logarithmic Functions Compatibility with Devices
 - Chapter 3 Exponential And Logarithmic Functions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 3 Exponential And Logarithmic Functions
 - Highlighting and Note-Taking Chapter 3 Exponential And Logarithmic Functions
 - Interactive Elements Chapter 3 Exponential And Logarithmic Functions
8. Staying Engaged with Chapter 3 Exponential And Logarithmic Functions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 3 Exponential And Logarithmic Functions
9. Balancing eBooks and Physical Books Chapter 3 Exponential And Logarithmic Functions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 3 Exponential And Logarithmic Functions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 3 Exponential And Logarithmic Functions
 - Setting Reading Goals Chapter 3 Exponential And Logarithmic Functions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 3 Exponential And Logarithmic Functions
 - Fact-Checking eBook Content of Chapter 3 Exponential And Logarithmic Functions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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