

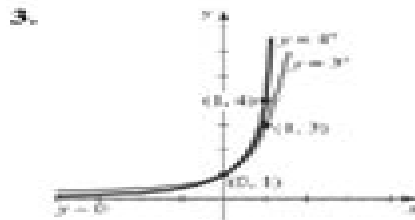
Chapter 4

Exponential and Logarithmic Functions

4.1 Exponential Functions; Continuous Compounding

1. Using the TI-84 Plus, find e^2 by pressing **2nd** e^x , then 2, right parenthesis, and **enter** to get $e^2 \approx 7.389$. Similarly, $e^{-2} \approx 0.135$, $e^{0.05} \approx 1.051$, $e^{-0.05} \approx 0.951$, $e^0 = 1$, $e \approx 2.718$, $\sqrt{e} \approx 1.649$, $\frac{1}{\sqrt{e}} \approx 0.607$.

2. $e^3 \approx 20.086$ $e^{-1} \approx 0.368$
 $e^{0.01} \approx 1.010$ $e^{-0.1} \approx 0.905$
 $e^2 \approx 7.389$ $e^{-1/2} \approx 0.607$
 $e^{1/3} \approx 1.396$ $\frac{1}{\sqrt[3]{e}} \approx 0.717$



4. $y_1 = \left(\frac{1}{3}\right)^x$ and $y_2 = \left(\frac{1}{4}\right)^x$ pass through $(0, 1)$. The x axis is a horizontal asymptote. y_2 lies above y_1 for $x < 0$.

5. (a) $27^{2/3} = (27^{1/3})^2 = 3^2 = 9$

(b) $\left(\frac{1}{9}\right)^{3/2} = \frac{1}{(9^{3/2})^3} = \frac{1}{3^3} = \frac{1}{27}$

6. (a) $(-128)^{2/7} = -8$

(b) $\left(\frac{27}{64}\right)^{2/3} \left(\frac{64}{25}\right)^{3/2} = \frac{3^2}{4^2} \frac{8^3}{5^3} = 2.304$

7. (a) $8^{2/3} + 16^{3/4} = (8^{1/3})^2 + (16^{1/4})^3$
 $= 2^2 + 2^3$
 $= 4 + 8$
 $= 12$

(b) $\left(\frac{27+36}{121}\right)^{3/2} = \frac{(63^{3/2})^3}{(121^{3/2})^3}$
 $= \frac{(3\sqrt{7})^3}{11^3}$
 $= \frac{189\sqrt{7}}{1331}$

8. (a) $(2^3 - 3^2)^{1/7} = (8 - 9)^{1/7} = -1$

(b) $(27^{2/3} + 8^{4/3})^{-3/2} = (3^2 + 2^4)^{-3/2}$
 $= 0.008$

9. (a) $(3^3)(3^{-2}) = 3^{3+(-2)} = 3$

(b) $(4^{2/3})(2^{2/3}) = (2^2)^{2/3}(2^{2/3})$
 $= (2^{4/3})(2^{2/3})$
 $= 2^{6/3}$
 $= 4$

Chapter 4 Exponential And Logarithmic Functions

Oswald Veblen



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Table of Contents Chapter 4 Exponential And Logarithmic Functions

1. Understanding the eBook Chapter 4 Exponential And Logarithmic Functions
 - The Rise of Digital Reading Chapter 4 Exponential And Logarithmic Functions
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 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 4 Exponential And Logarithmic Functions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4 Exponential And Logarithmic Functions
 - Personalized Recommendations
 - Chapter 4 Exponential And Logarithmic Functions User Reviews and Ratings
 - Chapter 4 Exponential And Logarithmic Functions and Bestseller Lists
5. Accessing Chapter 4 Exponential And Logarithmic Functions Free and Paid eBooks
 - Chapter 4 Exponential And Logarithmic Functions Public Domain eBooks
 - Chapter 4 Exponential And Logarithmic Functions eBook Subscription Services

- Chapter 4 Exponential And Logarithmic Functions Budget-Friendly Options
- 6. Navigating Chapter 4 Exponential And Logarithmic Functions eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 4 Exponential And Logarithmic Functions Compatibility with Devices
 - Chapter 4 Exponential And Logarithmic Functions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 4 Exponential And Logarithmic Functions
 - Highlighting and Note-Taking Chapter 4 Exponential And Logarithmic Functions
 - Interactive Elements Chapter 4 Exponential And Logarithmic Functions
- 8. Staying Engaged with Chapter 4 Exponential And Logarithmic Functions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 4 Exponential And Logarithmic Functions
- 9. Balancing eBooks and Physical Books Chapter 4 Exponential And Logarithmic Functions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 4 Exponential And Logarithmic Functions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 4 Exponential And Logarithmic Functions
 - Setting Reading Goals Chapter 4 Exponential And Logarithmic Functions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 4 Exponential And Logarithmic Functions
 - Fact-Checking eBook Content of Chapter 4 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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