

## 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,

$$e^{-2} \approx 0.135, \quad e^{0.05} \approx 1.051,$$

$$e^{-0.05} \approx 0.951, \quad e^0 = 1, \quad e \approx 2.718,$$

$$\sqrt{e} \approx 1.649, \quad \frac{1}{\sqrt{e}} \approx 0.607.$$

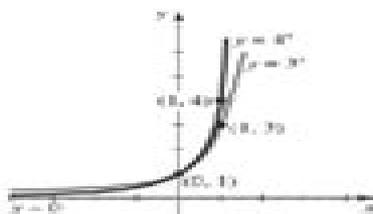
2.  $e^3 \approx 20.086$      $e^{-1} \approx 0.368$

$$e^{0.01} \approx 1.010 \quad e^{-0.1} \approx 0.905$$

$$e^2 \approx 7.389 \quad e^{-1/2} \approx 0.607$$

$$e^{1/3} \approx 1.396 \quad \frac{1}{\sqrt[3]{e}} \approx 0.717$$

- 3.



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

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

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

**ML Morrison**



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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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