

## Section 6.3 Exponential Functions

### Objectives:

- 1) Evaluate Exponential Functions
- 2) Graph Exponential Functions
- 3) Solve exponential equations
- 4) Compound Interest

### Example 1: Review of Laws of Exponents

#### Laws of Exponents

If  $s, t, a$ , and  $b$  are real numbers with  $a > 0$  and  $b > 0$ , then

$$\begin{aligned} a^s \cdot a^t &= a^{s+t} & (a^s)^t &= a^{st} & (ab)^s &= a^s \cdot b^s \\ 1^s &= 1 & a^{-s} &= \frac{1}{a^s} = \left(\frac{1}{a}\right)^s & a^0 &= 1 \end{aligned} \quad (1)$$

RATIONAL EXPONENT RULE

$$a^{\frac{m}{n}} = \sqrt[n]{a^m} = (\sqrt[n]{a})^m$$

a)  $-3^2$   
 $= -9$

vs

$(-3)^2$   
 $= 9$

b)  $2^{-3}$   
 $= \frac{1}{2^3} = \frac{1}{8}$

c)  $3 \cdot 4^{\frac{1}{2}}$   
 $= 3 \cdot \sqrt{4} = 3 \cdot 2 = 6$

d)  $-2 \cdot 27^{\frac{2}{3}}$   
 $= -2 \cdot (\sqrt[3]{27})^2$   
 $= -2 \cdot 3^2 = -2 \cdot 9$   
 $= -18$

e)  $5 \left(\frac{1}{2}\right)^{-3}$   
 $= 5 \cdot \left(\frac{1}{2}\right)^{-3}$   
 $= 5 \cdot \frac{1}{\left(\frac{1}{2}\right)^3}$   
 $= 5 \cdot 8 = 40$

f)  $5^0$   
 $= 1$

An exponential function is a function of the form

$$f(x) = Ca^x$$

$\uparrow$  multiplier (growth factor)  
 $\uparrow$  initial value (0, C)

where  $a$  is a positive real number ( $a > 0$ ),  $a \neq 1$ , and  $C \neq 0$  is a real number. The domain of  $f$  is the set of all real numbers. The base  $a$  is the **growth factor**, and, because  $f(0) = Ca^0 = C$ ,  $C$  is called the **initial value**.

### Example 2: Identify Linear vs Exponential Data

+1

x	y
-2	-4
-1	-2
0	0
1	2
2	4
3	6

+2

slope =  $\frac{\Delta y}{\Delta x} \rightarrow \frac{2}{1}$   
 $y = 2x$  linear

+1

x	y
-2	$\frac{1}{4}$
-1	$\frac{1}{2}$
0	1
1	2
2	4
3	8

x2

Exponential growth  
 $y = 1 \cdot 2^x$

+1

x	y
0	2
1	8
2	32
3	128
4	512

x4

Exponential growth  
 $y = 2 \cdot 4^x$

# Exponential Functions Answer Key

**CL Gary**



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### **Table of Contents Exponential Functions Answer Key**

1. Understanding the eBook Exponential Functions Answer Key
  - The Rise of Digital Reading Exponential Functions Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Exponential Functions Answer Key
  - 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 Exponential Functions Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Exponential Functions Answer Key
  - Personalized Recommendations

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

- 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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