

# 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  $a$



# Chapter 3 Exponential And Logarithmic Functions

**Kathleen Armour**



## **Chapter 3 Exponential And Logarithmic Functions:**

## Enjoying the Song of Expression: An Emotional Symphony within **Chapter 3 Exponential And Logarithmic Functions**

In a world eaten by screens and the ceaseless chatter of fast transmission, the melodic splendor and psychological symphony created by the published term often fade in to the back ground, eclipsed by the constant sound and interruptions that permeate our lives. However, set within the pages of **Chapter 3 Exponential And Logarithmic Functions** a marvelous literary prize brimming with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, that interesting masterpiece conducts readers on an emotional trip, well unraveling the concealed songs and profound influence resonating within each carefully constructed phrase. Within the depths of the touching analysis, we will explore the book is central harmonies, analyze their enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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