

# 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  $e = 2.718281828 \dots$

### 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  $5^{2/3}$ .  
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 \_\_\_\_\_

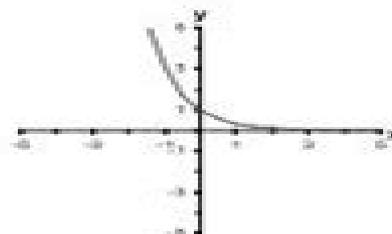
For  $a > 1$ , is the graph of  $g(x) = a^{-x}$  increasing or decreasing over its domain? \_\_\_\_\_ Decreasing \_\_\_\_\_

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  $y$ -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

**James R. Barrante**



### Chapter 3 Exponential And Logarithmic Functions:

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**An Elementary Treatise on the Differential Calculus, Containing the Theory of Plane Curves with Numerous Examples** Benjamin WILLIAMSON (Fellow of Trinity College, Dublin.), 1872 **Elements of the Infinitesimal Calculus** James Gregory Clark, 1875 [Graphing Calculator and Excel Manual](#) Ronald J. Harshbarger, Lisa S. Yocco, 2006-02

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*Precalculus Mathematics* Steven Jerome Bryant, Daniel Saltz, 1980 [Introduction to Infinitesimal Analysis](#) Oswald Veblen, 1907 *Student Solutions Manual for Precalculus* Earl Swokowski, Jeffery Cole, 2007 Check your work and your understanding with this manual which provides solutions for all of the odd numbered exercises in the text You will also find strategies for solving additional exercises and many helpful hints and warnings *Ssm Precalc* Jeffery Alan Cole, 2005 The student solutions manual provides worked out solutions to the odd numbered problems in the text

**Intermediate Algebra** Raymond A. Barnett, Thomas J. Kearns, 1986

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