

# 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

### 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 \_\_\_\_\_

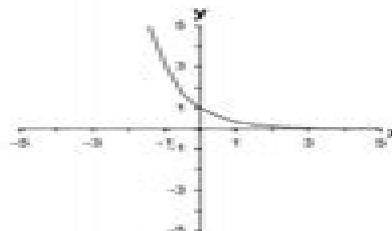
For  $a > 1$ , is the graph of  $g(x) = a^{-x}$  increasing or decreasing over its domain? \_\_\_\_\_ Decreasing \_\_\_\_\_

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 recognize and evaluate exponential functions with base  $a$

*What you should learn*  
How to graph exponential functions with base  $a$



# Chapter 3 Exponential And Logarithmic Functions

**N Colangelo**



### Chapter 3 Exponential And Logarithmic Functions:

**Precalculus** Cynthia Y. Young, 2023-05-16 Cynthia Young's Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision the author focuses on the most difficult topics in precalculus bringing clarity to challenging learning objectives Young, Precalculus, Third Edition Cynthia Y. Young, 2021-06-21 Precalculus was developed to create a program that seamlessly aligns with how teachers teach and fully supports student learning Cynthia Young's goal was to create an intuitive supportive product for students without sacrificing the rigor needed for true conceptual understanding and preparation for calculus Precalculus helps bridge the gap between in class work and homework by mirroring the instructor voice outside the classroom through pedagogical features Publisher College Algebra John Tobey, J. Louis Nanney, John Laurence Cable, 1986 **Elements of the Differential and Integral Calculus with Applications** William Shaffer Hall, 1897 **The Mathematics of Engineering** Ralph Eugene Root, 1927 *Notices of the American Mathematical Society* American Mathematical Society, 1969 **An Elementary Treatise on the Differential Calculus, Etc** Benjamin Williamson (Fellow of Trinity College, Dublin.), 1872 *Trigonometry with Tables* Ernst Rudolph Breslich, Charles Arthur Stone, 1928 *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 **An Elementary Treatise on the Differential Calculus, Containing the Theory of Plane Curves, with Numerous Examples** Benjamin Williamson, 1889 **The American Mathematical Monthly**, 1919 Includes section Recent publications Mathematics: with Applications in the Management, Natural, and Social Sciences Margaret L. Lial, Charles David Miller, 1974 *An Elementary Treatise on the Differential Calculus* Benjamin Williamson, 1899 **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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