Chapter 3   Exponential and Logarithmic Functions

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 $e \approx 2.718281828 \ldots$

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 $5^{3/5}$.
                  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 $f(x) = 3^{-x}$.

Chapter 3 Exponential And Logarithmic Functions

Raymond A. Barnett,Thomas J. Kearns

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

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