

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 $5^{3/5}$.
2.626527804

What you should learn
How to recognize and evaluate exponential functions with base a

II. Graphs of Exponential Functions (Pages 185–187)

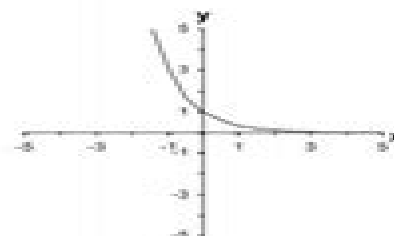
For $a > 1$, is the graph of $f(x) = a^x$ increasing or decreasing over its domain? _____ Increasing _____

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

William Shaffer Hall



Chapter 3 Exponential And Logarithmic Functions:

Enjoying the Beat of Term: An Emotional Symphony within **Chapter 3 Exponential And Logarithmic Functions**

In a global eaten by screens and the ceaseless chatter of fast transmission, the melodic splendor and psychological symphony produced by the published word often diminish in to the background, eclipsed by the relentless sound and interruptions that permeate our lives. But, set within the pages of **Chapter 3 Exponential And Logarithmic Functions** a charming fictional prize filled with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this captivating masterpiece conducts viewers on an emotional journey, skillfully unraveling the hidden tunes and profound impact resonating within each carefully constructed phrase. Within the depths of this emotional analysis, we shall discover the book is central harmonies, analyze their enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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