

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)

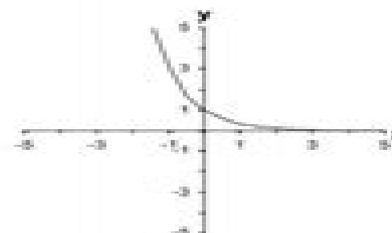
For $a > 1$, is the graph of $f(x) = a^x$ increasing or decreasing over its domain? _____ Increasing _____

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



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J Rink



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