

CHAPTER OVERVIEW

4: Exponential and Logarithmic Functions

Learning Objectives

In this chapter, you will

1. Examine exponential and logarithmic functions and their properties
2. Identify exponential growth and decay functions and use them to model applications
3. Use the natural base e to represent an exponential functions
4. Use logarithmic functions to solve equations involving exponential functions
5. Use logarithmic and exponential functions to solve equations.

[4.1: Prelude to Exponential and Logarithmic Functions including Exponential properties](#)

[4.2: Definition of Exponential Function, Exponential Growth and Decay Models](#)

[4.2.1: Exponential Growth and Decay Models \(Exercises\)](#)

[4.3: Graphs and Properties of Exponential Growth and Decay Functions/Use TI-84 calculator](#)

[4.3.1: Graphs and Properties of Exponential Growth and Decay Functions \(Exercises\)](#)

[4.4: Logarithms and Logarithmic Functions](#)

[4.4.1: Logarithms and Logarithmic Functions \(Exercises\)](#)

[4.5: Graphs and Properties of Logarithmic Functions](#)

[4.5.1: Graphs and Properties of Logarithmic Functions \(Exercises\)](#)

[4.6: Exponential and Logarithmic Equations](#)

[4.7: Chapter Review](#)

[4.E: Exponential and Logarithmic Functions \(Exercises\)](#)

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