

Growth and Decay

Learning objectives

In this unit we focus on practical problems that illustrate growth and decay, introducing the exponential function, which has widespread applications. After completing this unit you should

- appreciate the characteristics of exponential functions of the form $y = a^x$
- be able to use the methodology of Carbon Dating to date artifacts
- understand the concept and characteristics of the exponential function $y = e^x$
- appreciate that $\ln x$ is the inverse of e^x
- be able to solve exponential equations
- understand the properties of logarithms.