

Exponential and Log Functions (Sections 6.1 – 6.5 in Algebra 2)

At the end of this unit, you should be able to...

- Identify a linear, quadratic, or exponential function
- Classify an exponential function as representing exponential growth or exponential decay
- Determine the multiplier for exponential growth and decay
- Write and evaluate exponential expressions to model growth and decay situations

- Evaluate expressions involving fractional exponents

- Use the compound interest formula
- Write equivalent forms for exponential and logarithmic equations
- Graph exponential and logarithmic functions
- Use the definitions of exponential and logarithmic functions to solve equations
- Simplify and evaluate expressions involving logarithms and the properties of logarithms
- Use the common log function to solve exponential and logarithmic equations
- Model and solve real-world problems involving exponential and logarithmic relationships