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When you think of exponents, you probably think of repeated multiplication. In this chapter, you will expand your knowledge of exponents and exponential functions. What does a zero exponent mean? What about negative and fractional exponents? What do such number concepts have to do with the planets and our solar system, the growth of living organisms, nuclear power generation, and investments and loans?

In ancient times, now-famous astronomers and mathematicians extended the basic concept of exponents to describe all sorts of scientific phenomena. Eventually, engineers and scientists applied these discoveries in innovative ways to improve our quality of life.

By the end of this chapter, you will

- graph an exponential relation, given its equation in the form $y = a^x$ ($a > 0$, $a \neq 1$), define this relation as the function $f(x) = a^x$, and explain why it is a function
- determine the value of a power with a rational exponent
- simplify algebraic expressions containing integer and rational exponents and evaluate numerical expressions containing integer and rational exponents and rational bases
- determine and describe key properties relating to domain and range, intercepts, increasing/decreasing intervals, and asymptotes for exponential functions represented in a variety of ways
- distinguish exponential functions from linear and quadratic functions by making comparisons in a variety of ways
- determine and describe the roles of the parameters a, k, d, and c in functions of the form $y = af[k(x - d)] + c$ in terms of transformations on the graph of $f(x) = a^x$ ($a > 0$, $a \neq 1$)
- sketch graphs of $y = af[k(x - d)] + c$ by applying one or more transformations to the graph of $f(x) = a^x$ ($a > 0$, $a \neq 1$), and state the domain and range of the transformed functions
- determine that the equation of a given exponential function can be expressed using different bases
- represent an exponential function with an equation, given its graph or its properties
- collect data that can be modelled as an exponential function, from primary sources, using a variety of tools, or from secondary sources, and graph the data
- identify exponential functions, including those that arise from real-world applications involving growth and decay, given various representations, and explain any restrictions that the context places on the domain and range
- solve problems using given graphs or equations of exponential functions arising from a variety of real-world applications by interpreting the graphs or by substituting values for the exponent into the equations

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