

5.1

Exponential Functions

In this lesson you will

- write a **recursive formula** to model **radioactive decay**
- find an **exponential function** that passes through the points of a geometric sequence
- learn about **half-life** for exponential decay and **doubling time** for exponential growth

In Chapter 1, you used recursive formulas to model geometric growth and decay. Recursive formulas generate only discrete values, such as the amount of money in an account after 1 year or 2 years. In many real-life situations, growth and decay happen continuously. In this lesson you will find explicit formulas that allow you to model continuous growth and decay.

Investigation: Radioactive Decay

Read the first paragraph and the Procedure Note in the investigation. If you have a die, you can conduct the experiment yourself by following these steps:

1. Draw 30 dots on a sheet of paper.
2. Roll the die once for each dot. If you roll a 1, erase or cross out the dot.
3. Count and record the number of dots remaining.
4. Repeat Steps 2 and 3 until fewer than three dots remain.

After you have collected the data, complete Steps 1–6 in your book. The results given below use these sample data:

Stage	0	1	2	3	4	5	6	7	8	9	10	11	12
People standing (or dots left)	30	26	19	17	14	12	11	9	8	8	5	5	2

Step 1 See the table above.

Step 2 At right is a graph of the data. The graph resembles a decreasing geometric sequence.

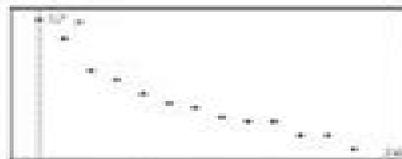
Step 3 The initial term is $u_0 = 30$. To find the common ratio, look at the ratios of consecutive y -values:

$$\frac{26}{30} = 0.867, \frac{19}{26} = 0.731, \frac{17}{19} = 0.895, \frac{14}{17} = 0.824, \frac{12}{14} = 0.857, \frac{11}{12} = 0.917,$$

$$\frac{9}{11} = 0.818, \frac{8}{9} = 0.889, \frac{8}{8} = 1, \frac{5}{8} = 0.625, \frac{5}{5} = 1, \frac{2}{5} = 0.4$$

Find the mean of these 12 ratios to obtain $r \approx 0.8185$.

By completing the table in your book, you should have noticed a pattern: $u_1 = u_0 \cdot r$, $u_2 = u_0 \cdot r^2$, and $u_3 = u_0 \cdot r^3$, and you can extend this pattern to $u_n = u_0 \cdot r^n$. Thus the explicit formula for the data is $u_n = 30 \cdot 0.8185^n$.



(continued)

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Table of Contents Lesson 5 1 Exponential Functions Kendallhunt Prek 12

1. Understanding the eBook Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - The Rise of Digital Reading Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Personalized Recommendations
 - Lesson 5 1 Exponential Functions Kendallhunt Prek 12 User Reviews and Ratings
 - Lesson 5 1 Exponential Functions Kendallhunt Prek 12 and Bestseller Lists
5. Accessing Lesson 5 1 Exponential Functions Kendallhunt Prek 12 Free and Paid eBooks
 - Lesson 5 1 Exponential Functions Kendallhunt Prek 12 Public Domain eBooks
 - Lesson 5 1 Exponential Functions Kendallhunt Prek 12 eBook Subscription Services

- Lesson 5 1 Exponential Functions Kendallhunt Prek 12 Budget-Friendly Options
- 6. Navigating Lesson 5 1 Exponential Functions Kendallhunt Prek 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Lesson 5 1 Exponential Functions Kendallhunt Prek 12 Compatibility with Devices
 - Lesson 5 1 Exponential Functions Kendallhunt Prek 12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Highlighting and Note-Taking Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Interactive Elements Lesson 5 1 Exponential Functions Kendallhunt Prek 12
- 8. Staying Engaged with Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lesson 5 1 Exponential Functions Kendallhunt Prek 12
- 9. Balancing eBooks and Physical Books Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lesson 5 1 Exponential Functions Kendallhunt Prek 12
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Setting Reading Goals Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Fact-Checking eBook Content of Lesson 5 1 Exponential Functions Kendallhunt Prek 12
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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