

EXPONENTIAL GROWTH AND DECAY

Exponential growth

Occurs when a quantity increases by the same rate over time.

$$y = a(1 + r)^t$$

$$a = \text{initial amount}$$

$$r = \text{rate}$$

$$t = \text{time}$$

Examples

1. The original value of an investment is \$1400, and the value increases by 9% each year. Write an exponential growth function to model this situation. Then, find the value of the investment after 25 years.

$$\begin{aligned} a &= 1400 \\ r &= 9\% \rightarrow 0.09 \\ t &= 25 \end{aligned} \quad \begin{aligned} y &= 1400(1 + 0.09)^t \\ y &= 1400(1.09)^t \end{aligned} \quad \begin{aligned} y &= 1400(1.09)^{25} \\ y &\approx \$12,872 \end{aligned}$$

2. The cost of tuition at a college is \$12,000 and is increasing at a rate of 6% each year. Write an exponential growth function to model this situation. Then, find the tuition cost after 4 years.

$$\textcircled{1} y = 12000(1.06)^x \quad \textcircled{2} y = \$15,160$$

3. The number of student athletes at a local high school is 300 and is increasing at a rate of 5% per year. Write an exponential growth function to model this situation. Then, find the number of student athletes after 5 years.

$$\textcircled{1} y = 300(1.05)^x \quad \textcircled{2} y \approx 391 \text{ student athletes}$$

4. Annual sales for a company are \$145,000 and are increasing at a rate of 6% per year. Write an exponential growth function to model this situation. Then, find the annual sales after 7 years.

$$\textcircled{1} y = 145000(1.06)^x \quad \textcircled{2} y \approx \$225,547$$

5. The population of a small town is 1600 and is increasing at a rate of 3% per year. Write an exponential function to model this situation. Then, find the population of the town after 10 years.

$$\textcircled{1} y = 1600(1.03)^x \quad \textcircled{2} y \approx 2160 \text{ people}$$

6. In 1985, there were 285 cell phone subscribers in Mayville. The number of subscribers increased by 75% per year after 1985. How many subscribers were in Mayville in 2008?

$$\textcircled{1} y = 285(1.75)^x \quad \textcircled{2} y \approx 10,542,994 \text{ subscribers}$$

Lesson 13 Exponential Growth Answers

JG Myers



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Table of Contents Lesson 13 Exponential Growth Answers

1. Understanding the eBook Lesson 13 Exponential Growth Answers
 - The Rise of Digital Reading Lesson 13 Exponential Growth Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Lesson 13 Exponential Growth Answers
 - 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 13 Exponential Growth Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lesson 13 Exponential Growth Answers
 - Personalized Recommendations
 - Lesson 13 Exponential Growth Answers User Reviews and Ratings
 - Lesson 13 Exponential Growth Answers and Bestseller Lists
5. Accessing Lesson 13 Exponential Growth Answers Free and Paid eBooks
 - Lesson 13 Exponential Growth Answers Public Domain eBooks
 - Lesson 13 Exponential Growth Answers eBook Subscription Services
 - Lesson 13 Exponential Growth Answers Budget-Friendly Options
6. Navigating Lesson 13 Exponential Growth Answers eBook Formats

- ePub, PDF, MOBI, and More
- Lesson 13 Exponential Growth Answers Compatibility with Devices
- Lesson 13 Exponential Growth Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lesson 13 Exponential Growth Answers
 - Highlighting and Note-Taking Lesson 13 Exponential Growth Answers
 - Interactive Elements Lesson 13 Exponential Growth Answers
- 8. Staying Engaged with Lesson 13 Exponential Growth Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lesson 13 Exponential Growth Answers
- 9. Balancing eBooks and Physical Books Lesson 13 Exponential Growth Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lesson 13 Exponential Growth Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lesson 13 Exponential Growth Answers
 - Setting Reading Goals Lesson 13 Exponential Growth Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lesson 13 Exponential Growth Answers
 - Fact-Checking eBook Content of Lesson 13 Exponential Growth Answers
 - 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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