

Exponential Growth - Homework

1. When a bacterial culture is incubated, often, the number of bacteria grows exponentially. The following table shows the growth of a culture of bacteria over time.

- a. Write a differential equation that represents the relationship, and then solve the equation for the value of b .

$$\frac{dy}{dt} = by$$

$$y = y_0 e^{bt}$$

- b. Suppose the culture started with 100 bacteria at $t = 0$ hours. How many bacteria are there at $t = 1$ hour? What is the average number of bacteria that are born per hour at $t = 1$ hour?

$$\frac{dy}{dt} = by$$

$$y = y_0 e^{bt}$$

$$y = 100 e^{b \cdot 1} = 100 e^b$$

- c. Sketch the graph of the relationship $y = 100 e^{bt}$.



- d. What will be the relationship of the bacteria after 2 hours? How many bacteria will there be then?

$$y = y_0 e^{2bt}$$

$$y = 100 e^{2b}$$

- e. How many bacteria will there be after 3 hours? What change in y will there be then?

$$y = y_0 e^{3bt}$$

$$y = 100 e^{3b}$$

$$\Delta y = 100(e^{3b} - 1)$$

- f. Suppose the culture started with 100 bacteria.

- i. At $t = 1$ hour, what are the instantaneous and average rates of change?

$$\frac{dy}{dt} = by$$

$$y = 100 e^{b \cdot 1} = 100 e^b$$

- ii. At $t = 2$ hours, what are the instantaneous and average rates of change?

$$y = 100 e^{2b}$$

$$y = 100 e^{2b}$$

2. Suppose y is an amount of money that earns interest annually. Suppose that the initial interest rate is 5% and that the amount of money grows exponentially. The following table shows the growth of the amount of money over time.

- a. Write a differential equation that represents the relationship, and then solve the equation for the value of b .

$$\frac{dy}{dt} = by$$

$$y = y_0 e^{bt}$$

- b. Suppose the differential equation for y is $\frac{dy}{dt} = by$ and that there are 100 dollars at $t = 0$ and 150 dollars at $t = 1$ hour. How many dollars will there be at $t = 2$ hours? What is the average rate of change of y over the interval $[0, 2]$?

$$y = y_0 e^{bt}$$

$$y = 100 e^{2b}$$

$$y = 100 e^{2b}$$

$$y = 100 e^{2b}$$

$$y = 100 e^{2b}$$

Exponential Growth Homework Stu Schwartz

KJ Lindholm-Leary



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UME Trends ,1990

Whispering the Secrets of Language: An Mental Quest through **Exponential Growth Homework Stu Schwartz**

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Table of Contents Exponential Growth Homework Stu Schwartz

1. Understanding the eBook Exponential Growth Homework Stu Schwartz
 - The Rise of Digital Reading Exponential Growth Homework Stu Schwartz
 - Advantages of eBooks Over Traditional Books
2. Identifying Exponential Growth Homework Stu Schwartz
 - 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 Exponential Growth Homework Stu Schwartz
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exponential Growth Homework Stu Schwartz
 - Personalized Recommendations

- Exponential Growth Homework Stu Schwartz User Reviews and Ratings
- Exponential Growth Homework Stu Schwartz and Bestseller Lists
- 5. Accessing Exponential Growth Homework Stu Schwartz Free and Paid eBooks
 - Exponential Growth Homework Stu Schwartz Public Domain eBooks
 - Exponential Growth Homework Stu Schwartz eBook Subscription Services
 - Exponential Growth Homework Stu Schwartz Budget-Friendly Options
- 6. Navigating Exponential Growth Homework Stu Schwartz eBook Formats
 - ePub, PDF, MOBI, and More
 - Exponential Growth Homework Stu Schwartz Compatibility with Devices
 - Exponential Growth Homework Stu Schwartz Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exponential Growth Homework Stu Schwartz
 - Highlighting and Note-Taking Exponential Growth Homework Stu Schwartz
 - Interactive Elements Exponential Growth Homework Stu Schwartz
- 8. Staying Engaged with Exponential Growth Homework Stu Schwartz
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exponential Growth Homework Stu Schwartz
- 9. Balancing eBooks and Physical Books Exponential Growth Homework Stu Schwartz
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exponential Growth Homework Stu Schwartz
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Exponential Growth Homework Stu Schwartz
 - Setting Reading Goals Exponential Growth Homework Stu Schwartz
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Exponential Growth Homework Stu Schwartz
 - Fact-Checking eBook Content of Exponential Growth Homework Stu Schwartz

- 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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