## Exponential Growth and Decay

Exponential functions are of the form:

$$y = a \cdot b^x$$

Notice: The variable x is an exponent. As such, the graphs of these functions are not straight lines. In a straight line, the "rate of change" is the \_\_\_\_\_ across the graph. In these graphs, the "rate of change" \_\_\_\_\_ or \_\_\_\_ across the graphs.



The graphs of exponential functions change based upon the values of a and b:

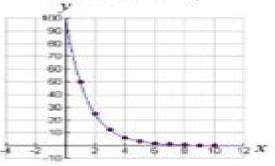
$$y = a \cdot b^*$$

Example

$$v = 100 \cdot (0.5)^x$$

when a > 0 and the b is between 0 and 1, the graph will be \_\_\_\_\_ (decaying).

For this example, each time x is increased by 1, y decreases to \_\_\_\_\_\_ of its previous value.



Such a situation is called Exponential Decay.

$$y = a \cdot b^x$$

Example

$$y = 1 \cdot (2)^x$$

when a > 0 and the b is greater than 1, the graph will be \_\_\_\_\_ (growing).

For this example, each time x is increased by 1, y increases by a factor of \_\_\_\_\_\_.



Such a situation is called Exponential Growth.

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#### Table of Contents Algebra 1 Exponential Growth And Decay Review Worksheet

- 1. Understanding the eBook Algebra 1 Exponential Growth And Decay Review Worksheet
  - o The Rise of Digital Reading Algebra 1 Exponential Growth And Decay Review Worksheet
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Algebra 1 Exponential Growth And Decay Review Worksheet
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Algebra 1 Exponential Growth And Decay Review Worksheet
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Algebra 1 Exponential Growth And Decay Review Worksheet
  - Personalized Recommendations

- Algebra 1 Exponential Growth And Decay Review Worksheet User Reviews and Ratings
- Algebra 1 Exponential Growth And Decay Review Worksheet and Bestseller Lists
- 5. Accessing Algebra 1 Exponential Growth And Decay Review Worksheet Free and Paid eBooks
  - Algebra 1 Exponential Growth And Decay Review Worksheet Public Domain eBooks
  - Algebra 1 Exponential Growth And Decay Review Worksheet eBook Subscription Services
  - Algebra 1 Exponential Growth And Decay Review Worksheet Budget-Friendly Options
- 6. Navigating Algebra 1 Exponential Growth And Decay Review Worksheet eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Algebra 1 Exponential Growth And Decay Review Worksheet Compatibility with Devices
  - Algebra 1 Exponential Growth And Decay Review Worksheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Algebra 1 Exponential Growth And Decay Review Worksheet
  - Highlighting and Note-Taking Algebra 1 Exponential Growth And Decay Review Worksheet
  - Interactive Elements Algebra 1 Exponential Growth And Decay Review Worksheet
- 8. Staying Engaged with Algebra 1 Exponential Growth And Decay Review Worksheet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebra 1 Exponential Growth And Decay Review Worksheet
- 9. Balancing eBooks and Physical Books Algebra 1 Exponential Growth And Decay Review Worksheet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Algebra 1 Exponential Growth And Decay Review Worksheet
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra 1 Exponential Growth And Decay Review Worksheet
  - o Setting Reading Goals Algebra 1 Exponential Growth And Decay Review Worksheet
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra 1 Exponential Growth And Decay Review Worksheet
  - Fact-Checking eBook Content of Algebra 1 Exponential Growth And Decay Review Worksheet

- 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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