

Exponential Growth and Decay

Date _____ Period _____

Solve each exponential growth/decay problem.

- 1) For a period of time, an island's population grows at a rate proportional to its population. If the growth rate is 3.8% per year and the current population is 1543, what will the population be 5.2 years from now?
- 2) During the exponential phase, *E. coli* bacteria in a culture increase in number at a rate proportional to the current population. If the growth rate is 1.9% per minute and the current population is 172.0 million, what will the population be 7.2 minutes from now?
- 3) Radioactive isotope Carbon-14 decays at a rate proportional to the amount present. If the decay rate is 12.10% per thousand years and the current mass is 135.2 mg, what will the mass be 2.2 thousand years from now?
- 4) A savings account balance is compounded continuously. If the interest rate is 3.1% per year and the current balance is \$1077.00, in how many years will the balance reach \$1486.73?

1) Using the exponential growth formula, $A = P e^{rt}$, where A is the amount after time t , P is the principal, r is the rate, and t is the time. In this problem, $P = 1543$, $r = 0.038$, and $t = 5.2$. Substituting these values into the formula, we get $A = 1543 e^{0.038(5.2)}$. Simplifying, we get $A \approx 1843.5$. The population will be approximately 1843.5 in 5.2 years.

2) Using the exponential growth formula, $A = P e^{rt}$, where A is the amount after time t , P is the principal, r is the rate, and t is the time. In this problem, $P = 172.0$ million, $r = 0.019$, and $t = 7.2$. Substituting these values into the formula, we get $A = 172.0 e^{0.019(7.2)}$. Simplifying, we get $A \approx 192.0$ million. The population will be approximately 192.0 million in 7.2 minutes.

Percent Growth And Decay Precal Work Sheet

Annelies Wilder-Smith



Percent Growth And Decay Precal Work Sheet:

Curriculum Review ,1986 *Paper* ,1968 **Exponential and Logarithmic Functions** Marilyn

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Table of Contents Percent Growth And Decay Precal Work Sheet

1. Understanding the eBook Percent Growth And Decay Precal Work Sheet
 - The Rise of Digital Reading Percent Growth And Decay Precal Work Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Percent Growth And Decay Precal Work Sheet
 - 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 Percent Growth And Decay Precal Work Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Percent Growth And Decay Precal Work Sheet
 - Personalized Recommendations

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

- 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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