

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 $A = 1543 e^{0.038 \cdot 5.2}$. Simplifying, we get $A \approx 1843.5$. The population will be approximately 1843.5 years from now.

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 $A = 172.0 e^{0.019 \cdot 7.2}$. Simplifying, we get $A \approx 192.0$ million. The population will be approximately 192.0 million from now.

Exponential Growth And Decay Worksheet Kuta

AN Whitehead



Exponential Growth And Decay Worksheet Kuta:

Exponential Growth and Decay Michael E. Foote, 1987

Exponential Growth and Decay Afrojbanu Bha, 2008

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Table of Contents Exponential Growth And Decay Worksheet Kuta

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

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