The exponential growth model is

$$Q(t) = Q_0 e^{kt}$$

Suppose that on an island there is a population of rabbits that is growing exponentially. Initially there were 250 rabbits. Three months later there are 3600 rabbits.

a. Use the exponential growth equation and the given information to set up an equation with time in months to find the exponential growth constant $k$

2500 ✗

b. Use the above equation to solve for the exponential growth constant. Round your answer to three decimal digits.

$k =$ .122 ✓

c. What is the function that gives the number of rabbits as a function of the time from the initial counting?

$Q(t) =$ 5184 ✗

d. How many rabbits are there 6 months after the initial counting? Round your answer to the nearest whole rabbit.

438 ✗ Rabbits

e. How fast is the population increasing at time $t = 3$ months?

630 ✗ Rabbits/Month

f. How fast is the population increasing at time $t = 6$ months?

Rabbits/Month

# Exponential Growth Questions And Answers

LL Leslie

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**Table of Contents Exponential Growth Questions And Answers**


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

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