

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?
- 5) A cup of coffee cools at rate proportional to the difference between the constant room temperature of 20.0°C and the temperature of the coffee. If the temperature of the coffee was 86.1°C 3.0 minutes ago and the current temperature of the coffee is 79.9°C, what will the temperature of the coffee be 29.0 minutes from now?
- 6) During the exponential phase, *E. coli* bacteria in a culture increase in number at a rate proportional to the current population. If the population doubles in 20.4 minutes, in how many minutes will the population triple?

Practice B 13 Exponential Growth And Decay

Tobias Bleicker



Practice B 13 Exponential Growth And Decay:

This book delves into Practice B 13 Exponential Growth And Decay. Practice B 13 Exponential Growth And Decay is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Practice B 13 Exponential Growth And Decay, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Practice B 13 Exponential Growth And Decay
 - Chapter 2: Essential Elements of Practice B 13 Exponential Growth And Decay
 - Chapter 3: Practice B 13 Exponential Growth And Decay in Everyday Life
 - Chapter 4: Practice B 13 Exponential Growth And Decay in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Practice B 13 Exponential Growth And Decay. This chapter will explore what Practice B 13 Exponential Growth And Decay is, why Practice B 13 Exponential Growth And Decay is vital, and how to effectively learn about Practice B 13 Exponential Growth And Decay.
 3. In chapter 2, the author will delve into the foundational concepts of Practice B 13 Exponential Growth And Decay. This chapter will elucidate the essential principles that must be understood to grasp Practice B 13 Exponential Growth And Decay in its entirety.
 4. In chapter 3, the author will examine the practical applications of Practice B 13 Exponential Growth And Decay in daily life. The third chapter will showcase real-world examples of how Practice B 13 Exponential Growth And Decay can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Practice B 13 Exponential Growth And Decay in specific contexts. The fourth chapter will explore how Practice B 13 Exponential Growth And Decay is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Practice B 13 Exponential Growth And Decay. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Practice B 13 Exponential Growth And Decay.

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