

Applications of Definite Integrals: Example #2

A bacteria colony initially has a population of 14 million bacteria. Suppose that t hours later the population is growing at a rate of $f(t) = 2^t$ million bacteria per hour.

- Write down a definite integral representing the total change in population from time $t = 0$ to $t = 2$.

$$\int_0^2 2^t dt = \text{total change of pop. } t=0 \text{ to } t=2$$

- Find the population of the entire colony at time $t = 2$.

$$t=0 \text{ to } t=2 \Rightarrow \text{pop. grew by } \int_0^2 2^t dt$$

Initial pop: 14 million

$$\begin{aligned} \text{Pop @ } t=2 &= \text{Initial pop} + \text{Change in pop} \\ &= 14 \text{ million} \end{aligned}$$

Applications Of Definite Integrals In Real Life

**Ulrich L. Rohde, G. C. Jain, Ajay K.
Poddar, A. K. Ghosh**



Applications Of Definite Integrals In Real Life:

The book delves into Applications Of Definite Integrals In Real Life. Applications Of Definite Integrals In Real Life is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Applications Of Definite Integrals In Real Life, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Applications Of Definite Integrals In Real Life
- Chapter 2: Essential Elements of Applications Of Definite Integrals In Real Life
- Chapter 3: Applications Of Definite Integrals In Real Life in Everyday Life
- Chapter 4: Applications Of Definite Integrals In Real Life in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Applications Of Definite Integrals In Real Life. The first chapter will explore what Applications Of Definite Integrals In Real Life is, why Applications Of Definite Integrals In Real Life is vital, and how to effectively learn about Applications Of Definite Integrals In Real Life.

3. In chapter 2, the author will delve into the foundational concepts of Applications Of Definite Integrals In Real Life. This chapter will elucidate the essential principles that must be understood to grasp Applications Of Definite Integrals In Real Life in its entirety.

4. In chapter 3, this book will examine the practical applications of Applications Of Definite Integrals In Real Life in daily life. This chapter will showcase real-world examples of how Applications Of Definite Integrals In Real Life can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Applications Of Definite Integrals In Real Life in specific contexts. This chapter will explore how Applications Of Definite Integrals In Real Life is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Applications Of Definite Integrals In Real Life. The final chapter will summarize the key points that have been discussed throughout the book.

The 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 Applications Of Definite Integrals In Real Life.

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