

## 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  $t = 2$ .

$$\int_0^2 2^t dt = \text{total } \overset{\text{pop}}{\underset{\text{from } t=0 \text{ to } t=2}{\text{pop}}}$$

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

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

Initial pop: 14 million

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

# Applications Of Definite Integrals In Real Life

**Oswaal Editorial Board**

## **Applications Of Definite Integrals In Real Life:**

**MATHEMATICS-II** Dr.SUSHIL KUMAR JAMARIAR,2025-10-18 It s with great happiness that I would like to acknowledge a great deal of people that get helped me extremely through the entire difficult challenging but a rewarding and interesting path towards some sort of Edited Book without having their help and support none of this work could have been possible College of Engineering University of Michigan. College of Engineering,1993

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**Introduction to Integral Calculus** Ulrich L. Rohde,G. C. Jain,Ajay K. Poddar,A. K.

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Applications Of Definite Integrals In Real Life**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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