

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 $t = 2$.

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

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

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 **GURUKUL CBSE**

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