

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

Sabine Zange

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle on the right side of the bar.

Applications Of Definite Integrals In Real Life:

Unveiling the Magic of Words: A Overview of "**Applications Of Definite Integrals In Real Life**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability 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 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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