

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

RM Cervero



Applications Of Definite Integrals In Real Life:

Whispering the Secrets of Language: An Psychological Journey through **Applications Of Definite Integrals In Real Life**

In a digitally-driven world where screens reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases frequently go unheard. However, situated within the pages of **Applications Of Definite Integrals In Real Life** a charming fictional treasure pulsating with raw emotions, lies an extraordinary quest waiting to be undertaken. Penned by a talented wordsmith, this marvelous opus attracts viewers on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the very fabric of every word. Within the mental depths of this touching evaluation, we can embark upon a genuine exploration of the book is key subjects, dissect its captivating publishing fashion, and yield to the strong resonance it evokes serious within the recesses of readers hearts.

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