

## 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

**L Reisser**



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

## Embracing the Tune of Appearance: An Emotional Symphony within **Applications Of Definite Integrals In Real Life**

In a world taken by monitors and the ceaseless chatter of quick interaction, the melodic splendor and emotional symphony created by the published word often disappear in to the background, eclipsed by the persistent noise and disturbances that permeate our lives. Nevertheless, situated within the pages of **Applications Of Definite Integrals In Real Life** a stunning literary treasure full of raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that fascinating masterpiece conducts readers on an emotional journey, well unraveling the hidden melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of this moving review, we can explore the book is key harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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