

## 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

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