

# Understanding Exponential Growth and Decay

In real-world scenarios, many processes, such as population growth, radioactive decay, and continuously compounded interest, can be modeled by exponential functions

$$y(t) = y_0 \cdot e^{kt}$$

Where :

- $y(t)$  is the quantity at time  $t$ .
- $y_0$  is the initial quantity at  $t = 0$ .
- $k$  is the growth ( $k > 0$ ) or decay ( $k < 0$ ) rate.
- $e$  is the base of the natural logarithm, approximately equal to 2.718.

# Laying the foundation Org Exponential Growth And Decay

**Paul C. Rogers, Massachusetts  
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web 1 convergence and divergence tests for series test when to use conclusions divergence test for any series  $\sum_{n=0}^{\infty} a_n$  diverges if  $\lim_{n \rightarrow \infty} a_n \neq 0$  integral test  $\sum_{n=0}^{\infty} a_n$  with  $a_n \geq 0$  and  $a_n$  decreasing  $\int_1^{\infty} f(x) dx$  and  $\sum_{n=0}^{\infty} a_n$  both converge diverge where  $f(n) = a_n$  comparison test  $\sum_{n=0}^{\infty} a_n$  and  $\sum_{n=0}^{\infty} b_n$   $a_n \leq b_n$   $\sum_{n=0}^{\infty} b_n$  converges

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