

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 2009 Exponential Growth And Decay

Rosina Ehmann



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