

# Deriving the Exponential Growth and Decay Model

The derivation of the exponential model starts with the assumption that the rate of change of a quantity  $y(t)$  is proportional to the quantity itself.

## Step 1: Separate Variables

To solve this differential equation, we first need to separate the variables  $y$  and  $t$ . This involves manipulating the equation so that all terms involving  $y$  are on one side and all terms involving  $t$  are on the other side

$$\frac{1}{y} dy = k dt$$

## Step 2: Integrate Both Sides

Now that we have separated the variables, the next step is to integrate both sides to find the general solution to the differential equation. This equation represents the logarithm of the absolute value of  $y$  as a linear function of time

$$\int \frac{1}{y} dy = \int k dt$$

## Step 3: Solve for $y(t)$

To find the explicit solution for  $y(t)$ , we need to solve the equation obtained in Step 2 for  $y$ .

We start by exponentiating both sides of the equation to eliminate the natural logarithm. Exponentiating both sides gives

$$|y| = e^{kt+C}$$

# Lesson 11 3 Exponential Growth And Decay

**S Ashworth**



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