

## Exponential Growth and Decay

In many natural phenomena (such as population growth, radioactive decay, etc.), quantities grow or decay at a rate proportional to their size. In other words, they satisfy the following **differential equation**

$$\boxed{\frac{dy}{dt} = ky, \quad \text{where } k \text{ is a constant}} \quad (1)$$

If  $k > 0$ , we call it the **law of natural growth**. If  $k < 0$ , we call it the **law of natural decay**.

**THEOREM:** The only solution of the differential equation (1) are the exponential functions

$$\boxed{y(t) = y(0)e^{kt}} \quad (2)$$

**REMARK:** It is easy to check that (2) satisfies (1). In fact,

$$\frac{dy}{dt} = (y(0)e^{kt})' = y(0)(e^{kt})' = y(0)e^{kt} \cdot (kt)' = y(0)e^{kt} \cdot k = k \underbrace{y(0)e^{kt}}_{y(t)} = ky(t)$$

### Population Growth

**EXAMPLE:** Use the fact that the world population was 2560 million people in 1950 and 3040 million in 1960 to model the population of the world in the second half of the 20th century. (Assume that the growth rate is proportional to the population size.) What is the **relative growth rate**  $k$ ? Use the model to estimate the world population in 1993 and to predict the population in the year 2020.

**Solution:** Since the growth rate is proportional to the population size, we have

$$\frac{dP}{dt} = kP$$

and therefore by the Theorem above we get

$$P(t) = P(0)e^{kt} \quad (3)$$

To find  $k$  we note that  $P(0) = 2560$  and  $P(10) = 3040$ . Using this in (3) with  $t = 10$ , we get

$$P(10) = P(0)e^{kt} \implies 3040 = 2560e^{k \cdot 10} \implies \frac{3040}{2560} = e^{k \cdot 10}$$

If we logarithm both sides, we get...

# Solving Exponential Growth Problems

**Krystle Rose Forseth, Christopher  
Burger, Michelle Rose Gilman, Deborah  
J. Rumsey**

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