

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

Toby Walsh



Solving Exponential Growth Problems:

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Solving Farm Problems by Research Frederick Blackmar Mumford, 1927

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H. Purcell, Jann H. Leppien, Deborah E. Burns, Cindy A. Strickland, 2005-09-08 Based on the Parallel Curriculum Model this book provides curriculum units in social studies science art and language arts for use in primary elementary middle and high school settings

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William P. Fox, William C. Bauldry, 2019-05-29 Problem Solving is essential to solve real world problems Advanced Problem Solving with Maple A First Course applies the mathematical modeling process by formulating building solving analyzing and criticizing mathematical models It is intended for a course introducing students to mathematical topics they will revisit within their further studies The authors present mathematical modeling and problem solving topics using Maple as the computer algebra system for mathematical explorations as well as obtaining plots that help readers perform analyses The book presents cogent applications that demonstrate an effective use of Maple provide discussions of the results obtained using Maple and stimulate thought and analysis of additional applications Highlights The book s real world case studies prepare the student for modeling applications Bridges the study of topics and applications to various fields of mathematics science and engineering Features a flexible format and tiered approach offers courses for students at various levels The book can be used for students with only algebra or calculus behind them About the authors Dr William P Fox is an emeritus professor in the Department of Defense Analysis at the Naval Postgraduate School Currently he is an adjunct professor Department of Mathematics the College of William and Mary He received his Ph D at Clemson University and has many publications and scholarly activities including twenty books and over one hundred and fifty journal articles William C Bauldry Prof Emeritus and Adjunct Research Prof of Mathematics at Appalachian State University received his PhD in Approximation Theory from Ohio State He has published many papers on pedagogy and technology often using Maple and has been the PI of several NSF funded projects incorporating technology and modeling into math courses He currently serves as Associate Director of COMAP s Math Contest in Modeling MCM Please note that the Maple package PSM is now on the public area of the Maple Cloud To access it From the web 1 Go to the website <https://maplecloud.com> 2 Click on packages in the left navigation pane 3 Click on PSM in the list of packages 4 Click the Download button to capture the package From Maple 1 Click on the Maple Cloud icon far right in the Maple window toolbar Or click on the Maple Cloud button on Maple s Start page to go to the website 2 Click on the packages in the navigation pane 3 Click on PSM in the list of packages The package then downloads into Maple directly

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