

Modeling Exponential Growth

Exponential Growth

$$y = a(1 + r)^t$$

A newly hatched catfish typically weighs about 0.3 gram. During the first six weeks of life, its growth is approximately exponential, increasing by about 10% each day. Find the weight of the fish at the end of six weeks.

↳ 42 days

- (a) Write an exponential function to model this scenario.
- (b) To the nearest thousandth, what is the weight of the fish at the end of six weeks?

$$\begin{array}{l} a = 0.3 \\ r = .10 \\ t = 42 \end{array} \quad \begin{array}{l} y = a(1 + r)^t \\ = .3(1 + .10)^{42} \\ = .3(1.10)^{42} \end{array}$$

Exponential Function Word Problems And Solutions

Jiyuan Zhang



Exponential Function Word Problems And Solutions:

Solving Math Problems Field Stone Publishers,2008

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Mathematics for Students of Business, Economics, and Social Science James Radlow,1979 *UMAP Modules, 1977-1979* ,1981 *A Problem Solving Approach to Mathematics for Elementary School Teachers* Rick Billstein,Shlomo Libeskind,Johnny W. Lott,1990 The text allows for a variety of approaches to teaching encourages discussion and collaboration among students and with their instructors allows for the integration of projects into the curriculum and promotes discovery and active learning Students using this text will receive solid preparation in mathematics develop confidence in their math skills and benefit from teaching and learning techniques that really work **UMAP Modules** ,1977

Z94.1 Analytical Techniques and Operations Research Michael R. Taaffe,2000 **College Algebra** David Cohen,1986 *Mathematical Reviews* ,2008 **Intermediate Algebra** M. G. Settle,1994 Notices of the American Mathematical Society American Mathematical Society,1992 *Film & Video Finder* ,1989 **Curriculum Review** ,1983

Exponential Function Word Problems And Solutions Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Exponential Function Word Problems And Solutions**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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