7. From 2002 to 2012, the bird population on an island can be modelled by the logarithmic function, $y = 250 \ln x$, where y represents the number of birds and x represents the time, in years, after 2000.

a) Explain whether or not the bird population is increasing or decreasing   2 mks

Graph it and look

It is Increasing

(But windows are
$[x] -10, 10000, 100$
$[y] -10, 10000, 100$)

b) Estimate the bird population in 2010   2 mks

$2000 \Rightarrow x = 0$

$2010 \Rightarrow x = 10$

Go to **Table**

The population in
2010 would be 575 Bird

(Remember Cannot have part of a Bird)

8. The radioactive element cobalt-60 can be used to treat cancer patients. Radioactive elements decay into other elements in a predictable way over time. The percent of cobalt-60, $A(t)$, left in a sample can be modelled by the half-life function,

$$A(t) = A_0\left(\frac{1}{2}\right)^{\frac{t}{5.3}}$$

where t represents the time, in years, after the initial time and A_0 represents the initial amount, 100%, of the cobalt-60.

✓ half life

a) How long does it take for the sample of cobalt-60 to reduce to half its initial amount?   1 mk

The half life is 5.3 years

b) What percent of cobalt-60 will remain in a sample after 10 years? Round to the nearest percent.   2 mks

the 't' value

$$A(t) = 100\left(\frac{1}{2}\right)^{\frac{10}{5.3}}$$

$$= 27.04$$

There would be 27% left

c) Determine how long it will take, to the nearest tenth of a year, until only 10% of the cobalt-60 remains.   2 mks

8 ? $\Rightarrow 10 = 100\left(\frac{1}{2}\right)^{\frac{x}{5.3}}$ } find Intersection

$17.6 = x$

It takes 17.6 years

George Soulé

Math 30 2 Smith Math:

   Common Core Mathematics Standards and Implementing Digital Technologies Polly, Drew,2013-05-31 Standards in the American education system are traditionally handled on a state by state basis which can differ significantly from one region of the country to the next Recently initiatives proposed at the federal level have attempted to bridge this gap Common Core Mathematics Standards and Implementing Digital Technologies provides a critical discussion of educational standards in mathematics and how communication technologies can support the implementation of common practices across state lines Leaders in the fields of mathematics education and educational technology will find an examination of the Common Core State Standards in Mathematics through concrete examples current research and best practices for teaching all students regardless of grade level or regional location This book is part of the Advances in Educational Technologies and Instructional Design series collection   **Asymptotic Theory of Separated Flows** Vladimir V. Sychev,1998-08-28 Boundary layer separation from a rigid body surface is one of the fundamental problems of classical and modern fluid dynamics The major successes achieved since the late 1960s in the development of the theory of separated flows at high Reynolds numbers are in many ways associated with the use of asymptotic methods The most fruitful of these has proved to be the method of matched asymptotic expansions which has been widely used in mechanics and mathematical physics There have been many papers devoted to different problems in the asymptotic theory of separated flows and we can confidently speak of the appearance of a very productive direction in the development of theoretical hydrodynamics This book will present this theory in a systematic account The book will serve as a useful introduction to the theory and will draw attention to the possibilities that application of the asymptotic approach provides   **Smith's Mathematics** Roberto Smith,Karl J. Smith,2005-06 Written by author Karl Smith the Student Survival and Solutions Manual provides survival hints as well as detailed and complete solutions to the odd numbered exercises and test questions   **Technology in Mathematics Education: Contemporary Issues** Dragana Martinovic,Douglas McDougall,Zerkeriya Karadag,2012   **STEM Education: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2014-12-31 This reference brings together an impressive array of research on the development of Science Technology Engineering and Mathematics curricula at all educational levels Provided by publisher   *The Theory of Infinite Soluble Groups* John C. Lennox,Derek J. S. Robinson,2004-08-19 The central concept in this monograph is that of a soluble group a group which is built up from abelian groups by repeatedly forming group extensions It covers all the major areas including finitely generated soluble groups soluble groups of finite rank modules over group rings algorithmic problems applications of cohomology and finitely presented groups whilst remaining fairly strictly within the boundaries of soluble group theory An up to date survey of the area aimed at research students and academic algebraists and group theorists it is a compendium of information that will be especially useful as a reference work for researchers in the field   **Catalogue** University of the Philippines,1923   **The**

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