Word Problems – Logistic Growth Models

You are a scientist working in Africa and have discovered that in a particular safari, the carrying capacity is 2000 tigers. You then release 500 tigers into the safari. The growth of the tiger pack is modeled by the logistic curve $p(t) = \frac{2000}{1+3e^{-0.145t}}$ where t is measured in months.

Estimate the tiger population after 6 months. After how many months will the tiger population reach 1000? Round to one decimal point.

$p(t) = \frac{2000}{1+3e^{-.145(6)}}$

$p(t) \approx 886$ tigers

Logistic Growth Example Problems

Karin Nielsen-Saines

Logistic Growth Example Problems:

Elementary Mathematical Models: An Accessible Development without Calculus, Second Edition Dan Kalman,Sacha Forgoston,Albert Goetz,2019-08-02 Elementary Mathematical Models offers instructors an alternative to standard college algebra quantitative literacy and liberal arts mathematics courses Presuming only a background of exposure to high school algebra the text introduces students to the methodology of mathematical modeling which plays a role in nearly all real applications of mathematics A course based on this text would have as its primary goal preparing students to be competent consumers of mathematical modeling in their future studies Such a course would also provide students with an understanding of the modeling process and a facility with much of the standard non trigonometric content of college algebra and precalculus This book builds successively a series of growth models defined in terms of simple recursive patterns of change corresponding to arithmetic quadratic geometric and logistic growth Students discover and come to understand linear polynomial exponential and logarithmic functions in the context of analyzing these models of intrinsically and scientifically interesting phenomena including polar ice extent antibiotic resistance and viral internet videos Students gain a deep appreciation for the power and limitations of mathematical modeling in the physical life and social sciences as questions of modeling methodology are carefully and constantly addressed Realistic examples are used consistently throughout the text and every topic is illustrated with models that are constructed from and compared to real data The text is extremely attractive and the exposition is extraordinarily clear The lead author of this text is the recipient of nine MAA awards for expository writing including the Ford Evans P lya and Allendoerfer awards and the Beckenbach Book prize Great care has been taken by accomplished expositors to make the book readable by students Those students will also benefit from more than 1 000 carefully crafted exercises **Principles of Parallel Scientific Computing** Tobias Weinzierl,2022-02-09 New insight in many scientific and engineering fields is unthinkable without the use of numerical simulations running efficiently on modern computers The faster we get new results the bigger and accurate are the problems that we can solve It is the combination of mathematical ideas plus efficient programming that drives the progress in many disciplines Future champions in the area thus will have to be qualified in their application domain they will need a profound understanding of some mathematical ideas and they need the skills to deliver fast code The present textbook targets students which have programming skills already and do not shy away from mathematics though they might be educated in computer science or an application domain It introduces the basic concepts and ideas behind applied mathematics and parallel programming that we need to write numerical simulations for today s multicore workstations Our intention is not to dive into one particular application domain or to introduce a new programming language we lay the generic foundations for future courses and projects in the area The text is written in an accessible style which is easy to digest for students without years and years of mathematics education It values clarity and intuition over formalism and uses a simple N body simulation setup to illustrate

basic ideas that are of relevance in various different subdomains of scientific computing Its primary goal is to make theoretical and paradigmatic ideas accessible to undergraduate students and to bring the fascination of the field across

Mathematical Systems Theory I Diederich Hinrichsen,Anthony J. Pritchard,2011-08-03 This book presents the mathematical foundations of systems theory in a self contained comprehensive detailed and mathematically rigorous way It is devoted to the analysis of dynamical systems and combines features of a detailed introductory textbook with that of a reference source The book contains many examples and figures illustrating the text which help to bring out the intuitive ideas behind the mathematical constructions **Maple via Calculus** Robert J. Lopez,1994-08-01 Modern software tools like Maple have the potential to alter radically the way mathematics is taught learned and done Bringing such tools into the classroom during lectures assignments and examinations means that new ways oflooking at mathematics can becomepermanent fixtures ofthe curriculum It is universal access that will make a software based approach to mathematics become the norm In 1988 with NSF funding under an III grant I had the opportunity to bring Maple into the calculus classroom at Rose Hulman Institute of Technology Since then a new curriculum based on the availability ofcomputer algebra systems has evolved at RHIT and in my own courses This volume contains a record of some of the insights gained into pedagogy using Maple in calculus The activities and ideas captured in these Maple worksheets reflect concepts in calculus imple mented in Maple There is an overt message to the reader that carries with it a side effect However it is possible that for one reader the side effect is the message and the message is the side effect I had intended to put before my audience examples extracted from my Maple based curriculum to entice a wider acceptance ofthe benefits of making a computer algebra system become the basis of a revised calculus syllabus By examples I had hoped to demonstrate the rightness of using software tools for teaching and learning calculus **(Free Sample) GO TO Objective NEET Biology Guide with DPP & CPP Sheets 9th Edition** Disha Experts,2021-10-07 The thoroughly revised updated 9th Edition of Go To Objective NEET Biology is developed on the objective pattern following the chapter plan as per the NCERT books of class 11 and 12 The book has been rebranded as GO TO keeping the spirit with which this edition has been designed The complete book has contains 38 Chapters In the new structure the book is completely revamped with every chapter divided into 2 4 Topics Each Topic contains Study Notes along with a DPP Daily Practice Problem of 15 20 MCQs This is followed by a Revision Concept Map at the end of each chapter The theory is followed by a set of 2 Exercises for practice The first exercise is based on Concepts Application It also covers NCERT based questions This is followed by Exemplar past 8 year NEET 2013 2021 questions In the end of the chapter a CPP Chapter Practice Problem Sheet of 45 Quality MCQs is provided The solutions to all the questions have been provided immediately at the end of each chapter *Elementary Differential Equations with Boundary Value Problems* Robert H. Martin,1984 Essentials of Chemical Reaction Engineering H. Scott Fogler,2011 Accompanying DVD ROM contains many realistic interactive simulations *Differential Equations with Boundary-value*

Problems Dennis G. Zill,Michael R. Cullen,1997 This Fourth Edition of the expanded version of Zill s best selling A FIRST COURSE IN DIFFERENTIAL EQUATIONS WITH MODELING APPLICATIONS places an even greater emphasis on modeling and the use of technology in problem solving and now features more everyday applications Both Zill texts are identical through the first nine chapters but this version includes six additional chapters that provide in depth coverage of boundary value problem solving and partial differential equations subjects just introduced in the shorter text Previous editions of these two texts have enjoyed such great success in part because the authors pique students interest with special features and in text aids Pre publication reviewers also praise the authors accessible writing style and the text s organization which makes it easy to teach from and easy for students to understand and use Understandable step by step solutions are provided for every example And this edition makes an even greater effort to show students how the mathematical concepts have relevant everyday applications Among the boundary value related topics covered in this expanded text are plane autonomous systems and stability orthogonal functions Fourier series the Laplace transform and elliptic parabolic and hyperparabolic partial differential equations and their applications *Calculus, Student Study Guide* Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,Daniel E. Flath,David O. Lomen,David Lovelock,Jeff Tecosky-Feldman,Thomas W. Tucker,Joseph Thrash,Karen R. Rhea,Andrew Pasquale,Sheldon P. Gordon,Douglas Quinney,Patti Frazer Lock,1999-03-30 A revision of the best selling innovative Calculus text on the market Functions are presented graphically numerically algebraically and verbally to give readers the benefit of alternate interpretations The text is problem driven with exceptional exercises based on real world applications from engineering physics life sciences and economics Revised edition features new sections on limits and continuity limits l Hopital s Rule and relative growth rates and hyperbolic functions Applied Calculus for Management, Social, and Life Sciences Dale E. Varberg,1991 **Applied Calculus** Deborah Hughes-Hallett,1999-08 *Problems of Scale in Ecological Research* Robert Hengeveld,1982 **Business Cycles: The problem and its setting** Wesley Clair Mitchell,1927 *An Economic Analysis of a Potential Overfishing Problem* Yu-Mong Hsiao,1986 Precalculus Student Success Organizer Ron Larson,2001-04 *New Zealand Journal of Ecology* ,1991

Problems of Population International Union for the Scientific Study of Population. General Assembly,1971

Multilevel Analysis J. J. Hox,2002 This volume provides an introduction to multilevel analysis for applied researchers The book presents two types of multilevel models the multilevel regression model and a model for multilevel covariance structures *Precalculus* Ron Larson,Robert P. Hostetler,2003-01-29 **Wildlife Review** ,1954

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