

Exponential Growth and Decay

Directions: Cut out all of the puzzle pieces. Match the pieces together in sets of three. An example is shown below:

The value of a car is \$20,000. It loses 4.5% of its value each year. What will the value of the car be after 3 years?

Decay

21,438

Example

A celebrity has 50,000 followers on Instagram. The number of followers increases by 4% each year. How many followers will they have after 8 years?

Growth

1,567

Beckett purchased a diamond ring in 2012 for \$2,000. If the value of the ring increases by 3.2% each year, what will the ring be worth in 2040?

Decay

21,438

Ali's starting salary at her new job is \$4,300. It is expected to increase by 3% each year. What will Ali's salary be in 10 years?

19,642

Jack purchased a new iPhone for \$300. It is expected to lose 25% of its value each year. What will his iPhone be worth in 4 years?

Growth

Decay

A house was purchased for \$250,000 in the year 2005. Its value increases at a rate of 3% per year. What will the value of the home be in 2030?

Growth

Decay

Exponential Growth And Decay Puzzle

Changrim Ahn, Chaiho Rim, Ryu Sasaki



Exponential Growth And Decay Puzzle:

Jacaranda Maths Quest 10 + 10A Victorian Curriculum, 3e learnON and Print Catherine Smith, Beverly Langsford Willing, Mark Barnes, Christine Utber, 2024-08-19 Jacaranda Maths Quest 10 10A for Victorian Curriculum v2 0 Victoria s most supportive Maths resource Developed by expert teachers every lesson is carefully designed to support learning online offline in class and at home Supporting students Whether students need a challenge or a helping hand they have the tools to help them take the next step in class and at home concepts brought to life with rich multi media easy navigation differentiated pathways immediate corrective feedback Worked solutions for every question personalised pathways that also allow for social learning opportunities for remediation extension acceleration tracking progress and growth Supporting teachers Teachers are empowered to teach their class their way with flexible resources perfect for teaching and learning 100 s of ready made and customisable lessons comprehensive Syllabus coverage and planning documentation a variety of learning activities assessment for as and of learning marking tracking monitoring and reporting capabilities ability to add own materials Supporting schools Schools are set up for success with our unmatched customer service training and solutions tailored to you Learning Management System LMS integration online class set up dedicated customer specialists tools to manage classes bookseller app integration complimentary resources for teachers training and professional learning curriculum planning data insights flexible subscription services at unbeatable prices *Jacaranda Maths Quest 10 Australian Curriculum, 5e learnON and Print* Catherine Smith, Beverly Langsford Willing, Mark Barnes, Christine Utber, 2023-11-20 Developed by expert teachers every lesson is carefully designed to support learning online offline in class and at home

Teaching and Learning High School Mathematics Charlene E. Beckmann, Denisse R. Thompson, Rheta N. Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach

mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

Integrable Quantum Field Theories and Their Application

Changrim Ahn, C. Rim, Ryū Sasaki, Ryu Sasaki, 2001 Applications of reflection amplitudes in Toda type theories C Ahn C Kim and C Rim Lax pairs and involutive Hamiltonians for CN and BCN Ruijsenaars Schneider models Kai Chen B Y Hou and W L Yang Fateev s models and their applications D Controzzi and A M Tselik The ODE IM correspondence P Dorey C Dunning and R Tateo Integrable sigma models P Fendley Lorentz lattice gases and spin chains M J Martins Quantum Calogero Moser models for any root system R Sasaki Quasi particles in conformal field theories for fractional quantum Hall systems K Schoutens and R A J van Elburg Towards form factors in finite volume F A Smirnov Static and dynamic properties of trapped Bose Einstein condensates T Tsurumi H Morise and M Wadati Integrability of the Calogero Model Conserved quantities the classical general solution and the quantum orthogonal basis H Ujino A Nishino and M Wadati Conformal boundary conditions J B Zuber

The Rainbow of Mathematics Jaine Kopp, Lincoln Bergman, 1999

Presents the main ideas and current approaches in inquiry based content rich mathematics education

Mantle Convection for Geologists Geoffrey F. Davies, 2011-02-03 Mantle convection is the fundamental agent driving many of the geological features observed at the Earth s surface including plate tectonics and plume volcanism Yet many Earth scientists have an incomplete understanding of the process This book describes the physics and fluid dynamics of mantle convection explaining what it is how it works and how to quantify it in simple terms It assumes no specialist background mechanisms are explained simply and the required basic physics is fully reviewed and explained with minimal mathematics The distinctive forms that convection takes in the Earth s mantle are described within the context of tectonic plates and mantle plumes and implications are explored for geochemistry and tectonic evolution Common misconceptions and controversies are addressed providing a straightforward but rigorous explanation of this key process for students and researchers across a variety of

geoscience disciplines **Integrable Quantum Field Theories And Their Applications - Procs Of The Apctp Winter School** Changrim Ahn, Chaiho Rim, Ryu Sasaki, 2001-09-25 This volume includes several lecture notes on the fundamentals and elementary techniques of integrable field theories and on their applications to low dimensional physics systems contributed by leading scientists in the respective fields The main topics covered are various aspects of the thermodynamic Bethe ansatz form factors Calogero and related models sigma models conformal boundary conditions etc The volume presents both pedagogical material and a current research trend in the field The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTEP CDROM version ISI Proceedings **Introduction to Calculus and Its Applications** Stanley J. Farlow, Gary Haggard, 1990 Planning Effective Curriculum for Gifted Learners Joyce VanTassel-Baska, 1992 Planning Effective Curriculum for Gifted Learners has checklists forms activities and dozens of practical ideas for planning K 12 curriculum It covers strategies and management techniques plus materials and differentiated activities Sample units are included to provide practical applications of the ideas Disadvantaged students and learning disabled populations are covered *Math Bytes* Tim P. Chartier, 2014-04-06 An inviting collection of fun hands on applications in mathematics and computing This book provides a fun hands on approach to learning how mathematics and computing relate to the world around us and help us to better understand it How can reposting on Twitter kill a movie s opening weekend How can you use mathematics to find your celebrity look alike What is Homer Simpson s method for disproving Fermat s Last Theorem Each topic in this refreshingly inviting book illustrates a famous mathematical algorithm or result such as Google s PageRank and the traveling salesman problem and the applications grow more challenging as you progress through the chapters But don t worry helpful solutions are provided each step of the way Math Bytes shows you how to do calculus using a bag of chocolate chips and how to prove the Euler characteristic simply by doodling Generously illustrated in color throughout this lively and entertaining book also explains how to create fractal landscapes with a roll of the dice pick a competitive bracket for March Madness decipher the math that makes it possible to resize a computer font or launch an Angry Bird and much much more All of the applications are presented in an accessible and engaging way enabling beginners and advanced readers alike to learn and explore at their own pace a bit and a byte at a time

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