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Turning Points in the History of Mathematics



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Martina Becvarova

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A Journey Through The Realm of Numbers Menny Aka, Manfred Einsiedler, Thomas Ward, 2020-10-03 This book takes the reader on a journey from familiar high school mathematics to undergraduate algebra and number theory. The journey starts with the basic idea that new number systems arise from solving different equations leading to abstract algebra Along this journey the reader will be exposed to important ideas of mathematics and will learn a little about how mathematics is really done Starting at an elementary level the book gradually eases the reader into the complexities of higher mathematics in particular the formal structure of mathematical writing definitions theorems and proofs is introduced in simple terms The book covers a range of topics from the very foundations numbers set theory to basic abstract algebra groups rings fields driven throughout by the need to understand concrete equations and problems such as determining which numbers are sums of squares Some topics usually reserved for a more advanced audience such as Eisenstein integers or quadratic reciprocity are lucidly presented in an accessible way The book also introduces the reader to open source software for computations to enhance understanding of the material and nurture basic programming skills For the more adventurous a number of Outlooks included in the text offer a glimpse of possible mathematical excursions. This book supports readers in transition from high school to university mathematics and will also benefit university students keen to explore the beginnings of algebraic number theory. It can be read either on its own or as a supporting text for first courses in algebra or number theory. *Turning Points in the History of Mathematics* Hardy and can also be used for a topics course on Diophantine equations Grant, Israel Kleiner, 2016-04-15 This book explores some of the major turning points in the history of mathematics ranging from ancient Greece to the present demonstrating the drama that has often been a part of its evolution Studying these breakthroughs transitions and revolutions their stumbling blocks and their triumphs can help illuminate the importance of the history of mathematics for its teaching learning and appreciation Some of the turning points considered are the rise of the axiomatic method most famously in Euclid and the subsequent major changes in it for example by David Hilbert the wedding via analytic geometry of algebra and geometry the taming of the infinitely small and the infinitely large the passages from algebra to algebras from geometry to geometries and from arithmetic to arithmetics and the revolutions in the late nineteenth and early twentieth centuries that resulted from Georg Cantor's creation of transfinite set theory The origin of each turning point is discussed along with the mathematicians involved and some of the mathematics that resulted Problems and projects are included in each chapter to extend and increase understanding of the material Substantial reference lists are also provided Turning Points in the History of Mathematics will be a valuable resource for teachers of and students in courses in mathematics or its history The book should also be of interest to anyone with a background in mathematics who wishes to learn more about the important moments in its development Academic E-Books Suzanne M. Ward, Robert S. Freeman, Judith M. Nixon, 2015-11-15 Academic E Books Publishers Librarians and Users provides readers with a view of the

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The Little Book of Maths Theorems, Theories and Things Surendra Verma, 2008 Mathematics is indeed fun as this little book testifies This book presents a unique collection of mathematical ideas theories theorems conjectures rules facts equations formulas paradoxes fallacies and puzzles with short simple and witty explanations that require no background in Social Studies Teaching Activities Books Gary Lare, 2006 An annotated listing of activities books for use with mathematics social studies curriculums focusing on elementary and middle school grades arranged by curriculum area topic and grade level Includes contact information for publishers and distributors of appropriate books and an index The Really Useful Maths Book Tony Brown, Henry Liebling, 2005-05-06 The Really Useful Maths Book is for all those who want children to enjoy the challenge of learning mathematics With suggestions about the best ways to use resources and equipment to support learning it describes in detail how to make learning the easy option for children An easy to follow comprehensive guide packed with ideas and activities it is the perfect tool to help teachers who wish to develop their teaching strategies This accessible and comprehensive book covers both the practical side of mathematics and the theory and practice of mathematics teaching Packed with ideas and activities it is the perfect tool to help you to improve your teaching strategies Topics covered include numbers and the number system what teachers need to know about interactive teaching calculating consolidating new ideas and developing personal qualities shape and space measures statistics and data handling consolidation and practice for accuracy speed and fluency The Really Useful Maths Book makes mathematics meaningful challenging and interesting It will be invaluable to practicing primary teachers subject specialists maths co ordinators student teachers mentors tutors home educators and others interested in mathematics education programmes Tony Brown

was formerly the Director of ESCalate the UK Centre for Education in HE at the Graduate School of Education University of Bristol UK Henry Liebling formerly led Primary Mathematics Education at University College Plymouth Marjon UK

Development Of Mathematics Between The World Wars, The: Case Studies, Examples And Analyses Martina Becvarova, 2021-05-14 The Development of Mathematics Between the World Wars traces the transformation of scientific life within mathematical communities during the interwar period in Central and Eastern Europe specifically in Germany Russia Poland Hungary and Czechoslovakia Throughout the book in depth mathematical analyses and examples are included for the benefit of the reader World War I heavily affected academic life In European countries many talented researchers and students were killed in action and scientific activities were halted to resume only in the postwar years However this inhibition turned out to be a catalyst for the birth of a new generation of mathematicians for the emergence of new ideas and theories and for the surprising creation of new and outstanding scientific schools. The final four chapters are not restricted to Central and Eastern Europe and deal with the development of mathematics between World War I and World War II After describing the general state of mathematics at the end of the 19th century and the first third of the 20th century three case studies dealing with selected mathematical disciplines are presented set theory potential theory combinatorics in a way accessible to a broad audience of mathematicians as well as historians of mathematics The College Buzz Book Carolyn C. Wise, Stephanie Hauser, 2007-03-26 Many guides claim to offer an insider view of top undergraduate programs but no publisher understands insider information like Vault and none of these guides provides the rich detail that Vault s new guide does Vault publishes the entire surveys of current students and alumni at more than 300 top undergraduate institutions Each 2 to 3 page entry is composed almost entirely of insider comments from students and alumni Through these narratives Vault provides applicants with detailed balanced perspectives True to Life Intermediate Class Book Ruth Gairns, Stuart Redman, Joanne Collie, 1996-02-15 True to Life is a five level course designed specifically for adult learners

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