# Proof in Mathematics Education

Research, Learning and Teaching

David A. Reid with Christine Knipping



# **Proof In Mathematics Education Research Learning And Teaching**

Gila Hanna, Michael de Villiers

#### **Proof In Mathematics Education Research Learning And Teaching:**

**Proof in Mathematics Education** David A. Reid, Christine Knipping, 2010 Research on teaching and learning proof and proving has expanded in recent decades This reflects the growth of mathematics education research in general but also an increased emphasis on proof in mathematics education This development is a welcome one for those interested in the topic but also poses a challenge especially to teachers and new scholars It has become more and more difficult to get an overview of the field and to identify the key concepts used in research on proof and proving Proof in Mathematics Education David A. Reid, Christine Knipping, 2010-01-01 Research on teaching and learning proof and proving has expanded in recent decades This reflects the growth of mathematics education research in general but also an increased emphasis on proof in mathematics education This development is a welcome one for those interested in the topic but also poses a challenge especially to teachers and new scholars It has become more and more difficult to get an overview of the field and to identify the key concepts used in research on proof and proving Teaching and Learning Proof Across the Grades Despina A. Stylianou, Maria L. Blanton, Eric J. Knuth, 2010-09-23 A Co Publication of Routledge for the National Council of Teachers of Mathematics NCTM In recent years there has been increased interest in the nature and role of proof in mathematics education with many mathematics educators advocating that proof should be a central part of the mathematics education of students at all grade levels This important new collection provides that much needed forum for mathematics educators to articulate a connected K 16 story of proof Such a story includes understanding how the forms of proof including the nature of argumentation and justification as well as what counts as proof evolve chronologically and cognitively and how curricula and instruction can support the development of students understanding of proof Collectively these essays inform educators and researchers at different grade levels about the teaching and learning of proof at each level and thus help advance the design of further empirical and theoretical work in this area By building and extending on existing research and by allowing a variety of voices from the field to be heard Teaching and Learning Proof Across the Grades not only highlights the main ideas that have recently emerged on proof research but also defines an agenda for future study **Advances in Mathematics** Education Research on Proof and Proving Andreas J. Stylianides, Guershon Harel, 2018-01-10 This book explores new trends and developments in mathematics education research related to proof and proving the implications of these trends and developments for theory and practice and directions for future research With contributions from researchers working in twelve different countries the book brings also an international perspective to the discussion and debate of the state of the art in this important area The book is organized around the following four themes which reflect the breadth of issues addressed in the book Theme 1 Epistemological issues related to proof and proving Theme 2 Classroom based issues related to proof and proving Theme 3 Cognitive and curricular issues related to proof and proving and Theme 4 Issues related to the use of examples in proof and proving Under each theme there are four main chapters and a concluding chapter offering a

commentary on the theme overall Proof and Proving in Mathematics Education Gila Hanna, Michael de Villiers, 2012-06-14 THIS BOOK IS AVAILABLE AS OPEN ACCESS BOOK ON SPRINGERLINK One of the most significant tasks facing mathematics educators is to understand the role of mathematical reasoning and proving in mathematics teaching so that its presence in instruction can be enhanced This challenge has been given even greater importance by the assignment to proof of a more prominent place in the mathematics curriculum at all levels Along with this renewed emphasis there has been an upsurge in research on the teaching and learning of proof at all grade levels leading to a re examination of the role of proof in the curriculum and of its relation to other forms of explanation illustration and justification This book resulting from the 19th ICMI Study brings together a variety of viewpoints on issues such as The potential role of reasoning and proof in deepening mathematical understanding in the classroom as it does in mathematical practice The developmental nature of mathematical reasoning and proof in teaching and learning from the earliest grades The development of suitable curriculum materials and teacher education programs to support the teaching of proof and proving The book considers proof and proving as complex but foundational in mathematics Through the systematic examination of recent research this volume offers new ideas aimed at enhancing the place of proof and proving in our classrooms **New Directions for Mathematics** Education Research on Proving Keith Weber, Miloš Savić, 2025-08-03 This book summarizes new directions in mathematics education research on proving at the university level thereby providing contemporary extensions of the sub fields of proof that Annie and John Selden introduced to the field The chapters each describe an emerging new area of proof research review the relevant findings in this area present open research questions and the tools to address them The book also discusses proof as a literary genre and how students feelings during the proof writing process can influence their behavior The concluding chapter of the book reflects on new directions for research on proving As such this book provides mathematics educators who have extensive experience researching proof with an up to date review of the new methodologies and research questions with regard to proof and young scholars interested in proof can use these chapters as primers on which they can build a research program **Proving in the Elementary Mathematics Classroom** Andreas J. Stylianides, 2016 Although proving is core to mathematics as a sense making activity it currently has a marginal place in elementary classrooms internationally Blending research with practical perspectives this book addresses what it would take to elevate the place of proving at elementary school The book uses classroom episodes from two countries to examine different kinds of proving tasks and the proving activity they can generate in the elementary classroom It examines further the role of teachers in mediating the relationship between proving tasks and proving activity including major mathematical and pedagogical issues that arise for teachers as they implement each kind of proving task In addition to its contribution to research knowledge the book has important implications for teaching curricular resources and teacher education Proof Technology in Mathematics Research and Teaching Gila Hanna, David A. Reid, Michael de Villiers, 2019-10-02 This book

presents chapters exploring the most recent developments in the role of technology in proving The full range of topics related to this theme are explored including computer proving digital collaboration among mathematicians mathematics teaching in schools and universities and the use of the internet as a site of proof learning Proving is sometimes thought to be the aspect of mathematical activity most resistant to the influence of technological change While computational methods are well known to have a huge importance in applied mathematics there is a perception that mathematicians seeking to derive new mathematical results are unaffected by the digital era. The reality is quite different Digital technologies have transformed how mathematicians work together how proof is taught in schools and universities and even the nature of proof itself Checking billions of cases in extremely large but finite sets impossible a few decades ago has now become a standard method of proof Distributed proving by teams of mathematicians working independently on sections of a problem has become very much easier as digital communication facilitates the sharing and comparison of results Proof assistants and dynamic proof environments have influenced the verification or refutation of conjectures and ultimately how and why proof is taught in schools And techniques from computer science for checking the validity of programs are being used to verify mathematical proofs Chapters in this book include not only research reports and case studies but also theoretical essays reviews of the state of the art in selected areas and historical studies The authors are experts in the field Handbook of Research on the Psychology of Mathematics Education Angel Gutiérrez, Paolo Boero, 2006 Compilation of the research produced by the International Group for the Psychology of Mathematics Education PME since its creation in 1976 The first three sections summarize cognitively oriented research on learning and teaching specific content areas transversal areas and based on technology rich environments. The fourth section is devoted to the research on social affective cultural and cognitive aspects of mathematics education The fifth section includes two chapters summarizing the PME research on teacher training and professional life of mathematics teachers **Research in Collegiate Mathematics Education III** Ed Dubinsky, James J. Kaput, Alan H. Schoenfeld, 1998 Volume III of Research in Collegiate Mathematics Education RCME presents state of the art research on understanding teaching and learning mathematics at the post secondary level This volume contains information on methodology and research concentrating on these areas of student learning Problem solving included here are three different articles analyzing aspects of Schoenfeld's undergraduate problem solving instruction The articles provide new detail and insight on a well known and widely discussed course taught by Schoenfeld for many years Understanding concepts these articles feature a variety of methods used to examine students understanding of the concept of a function and selected concepts from calculus The conclusions presented offer unique and interesting perspectives on how students learn concepts Understanding proofs this section provides insight from a distinctly psychological framework Researchers examine how existing practices can foster certain weaknesses They offer ways to recognize and interpret students proof behaviors and suggest alternative practices and curricula to build more powerful schemes The section concludes with a focused look at

using diagrams in the course of proving a statement  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$ 

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