

## 4 METHODS OF MATHEMATICAL PROOF

**Definition 4.1 (Proof).** A proof is a sequence of statements used to show that a proposition is true.

Here are some important terminologies associated to proofs.

**Definition 4.2 (Theorem).** A theorem is a proposition that has been shown to be true.

**Definition 4.3 (Lemma).** A lemma is a proven proposition that is used as a stepping stone to a larger result rather than as a statement of interest by itself.

**Definition 4.4 (Corollary).** A corollary is a proposition that can be established directly from a theorem that has been proven.

**Definition 4.5 (Conjecture).** A conjecture is a conclusion or proposition based on incomplete information, for which no proof or disproof has yet been found.

**Definition 4.6 (Axiom).** Axioms are assumptions about a mathematical structure and are assumed to be true.

**Direct Proof:** To prove the implication  $P \implies Q$ , we assume  $P$  is true. We then use  $P$ , axioms, definitions and previously derived results to show that  $Q$  is true. A direct proof has the following form.

Suppose that  $P$  is true.  
 $\vdots$   
(argumentation)  
 $\vdots$   
Therefore  $Q$  is true.

**Example 4.1.** Let  $a$ ,  $b$  and  $c$  be integers. Prove that if  $a|b$  and  $b|c$ , then  $a|c$ .

*Solution.* Let  $a$ ,  $b$  and  $c$  be integers. Suppose that  $a|b$  and  $b|c$ . Then, by definition, there are integers  $m$  and  $n$  such that  $b = am$  and  $c = bn$ . Thus, we have that

$$c = bn = (am)n = a(mn) = at, \tag{4.1}$$

where  $t = mn \in \mathbb{Z}$ . Therefore,  $a|c$ . ■

**Example 4.2.** Prove that  $b - a$  is odd whenever  $a$  and  $b$  are consecutive perfect squares.

*Solution.* Suppose that  $a$  and  $b$  are consecutive perfect squares. Then,  $a = k^2$  and  $b = (k+1)^2$  for some  $k \in \mathbb{Z}$ . It follows that

$$b - a = (k+1)^2 - k^2 = k^2 + 2k + 1 - k^2 = 2k + 1. \tag{4.2}$$

Hence,  $b - a$  is odd. ■



# Methods Analytical Proof Mathematical Thinking

**Randall Maddox**



## **Methods Analytical Proof Mathematical Thinking:**

*Methods of the Analytical Proof* Edited by Paul F. Kisak, 2015-11-25 In mathematics an analytic proof is a proof of a theorem in analysis that only makes use of methods from analysis and which does not predominantly make use of algebraic or geometrical methods The term was first used by Bernard Bolzano who first provided a non analytic proof of his intermediate value theorem and then several years later provided proof of the theorem which was free from intuitions concerning lines crossing each other at a point and so he felt happy calling it analytic Bolzano 1817 Bolzano's philosophical work encouraged a more abstract reading of when a demonstration could be regarded as analytic where a proof is analytic if it does not go beyond its subject matter Sebastik 2007 In proof theory an analytic proof has come to mean a proof whose structure is simple in a special way due to conditions on the kind of inferences that ensure none of them go beyond what is contained in the assumptions and what is demonstrated This book details the methods and means by which an analytic proof is formulated

**Teaching Discipline-Specific Literacies in Grades 6-12** Vicky I. Zygouris-Coe, 2014-10-30 Comprehensive timely and relevant this text offers an approach to discipline specific literacy instruction that is aligned with the Common Core State Standards and the needs of teachers students and secondary schools across the nation It is essential that teachers know how to provide instruction that both develops content and literacy knowledge and skills and aims at reducing student achievement gaps Building on the research supported premise that discipline specific reading instruction is key to achieving these goals this text provides practical guidance and strategies for prospective and practicing content area teachers and other educators on how to prepare all students to succeed in college and the workforce Pedagogical features in each chapter engage readers in digging deeper and in applying the ideas and strategies presented in their own contexts Classroom Life real 6 12 classroom scenarios and interviews with content area teachers Common Core State Standards Connections College Career and Workforce Connections Applying Discipline Specific Literacies Think Like an Expert habits of thinking and learning specific to each discipline Digital Literacies Differentiating Instruction Reflect and Apply Questions Extending Learning Activities The Companion Website includes Lesson plan resources Annotated links to video files Annotated links to additional resources and information Glossary Flashcards For Instructors All images and figures used in the text provided in an easily downloadable format For Instructors PowerPoint lecture slides

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strategies Move beyond isolated skill practice to develop integrated mathematical understanding and proficiency Create classroom environments that foster productive engagement and mathematical confidence Apply research based approaches that connect conceptual understanding with procedural fluency Design meaningful learning experiences that develop critical thinking and problem solving abilities Contents Introduction Chapter 1 Myths and Misconceptions in Mathematics Education Chapter 2 Conceptual and Procedural Integration Chapter 3 Problem Solving and Modeling Chapter 4 Logical Reasoning and Proof Chapter 5 Communication and Representation Chapter 6 Strategic Use of Tools and Precision Chapter 7 Structural Insight and Regularity Chapter 8 Productive Disposition and Engagement Chapter 9 The CMC Framework in Your Classroom Epilogue References Index

**Descartes's Mathematical Thought** C. Sasaki, 2013-03-09 Covering both the history of mathematics and of philosophy Descartes's Mathematical Thought reconstructs the intellectual career of Descartes most comprehensively and originally in a global perspective including the history of early modern China and Japan Especially it shows what the concept of *mathesis universalis* meant before and during the period of Descartes and how it influenced the young Descartes In fact it was the most fundamental mathematical discipline during the seventeenth century and for Descartes a key notion which may have led to his novel mathematics of algebraic analysis

*Mathematical Thinking and Writing* Randall Maddox, 2001-07-24 The ability to construct proofs is one of the most challenging aspects of the world of mathematics It is essentially the defining moment for those testing the waters in a mathematical career Instead of being submerged to the point of drowning readers of *Mathematical Thinking and Writing* are given guidance and support while learning the language of proof construction and critical analysis Randall Maddox guides the reader with a warm conversational style through the task of gaining a thorough understanding of the proof process and encourages inexperienced mathematicians to step up and learn how to think like a mathematician A student's skills in critical analysis will develop and become more polished than previously conceived Most significantly Dr Maddox has the unique approach of using analogy within his book to clarify abstract ideas and clearly demonstrate methods of mathematical precision

**Contemporary Mathematical Thinking** Frédéric Patras, 2023-04-13 This book deals with the evolution of mathematical thought during the 20th century Representing a unique point of view combining mathematics philosophy and history on this issue it presents an original analysis of key authors for example Bourbaki Grothendieck and Husserl As a product of 19th and early 20th century science a canon of knowledge or a scientific ideology mathematical structuralism had to give way The succession is difficult still in progress and uncertain To understand contemporary mathematics its progressive liberation from the slogans of modern mathematics and the paths that remain open today it is first necessary to deconstruct the history of this long dominant current Another conception of mathematical thought emerged in the work of mathematicians such as Hilbert or Weyl which went beyond the narrow epistemological paths of science in the making In this tradition mathematical thought was accompanied by a philosophical requirement Modernity teaches us to revive it The book is intended for a varied

public mathematicians concerned with understanding their discipline philosophers of science and the erudite public curious about the progress of mathematics

**Mathematical Thought From Ancient to Modern Times, Volume 3** Morris Kline,1990-03-01 This comprehensive history traces the development of mathematical ideas and the careers of the men responsible for them Volume 1 looks at the disciplines origins in Babylon and Egypt the creation of geometry and trigonometry by the Greeks and the role of mathematics in the medieval and early modern periods Volume 2 focuses on calculus the rise of analysis in the 19th century and the number theories of Dedekind and Dirichlet The concluding volume covers the revival of projective geometry the emergence of abstract algebra the beginnings of topology and the influence of Godel on recent mathematical study

**Mathematical Thinking** John P. D'Angelo,Douglas Brent West,1997 Developing logical thinking and fundamental mathematical ideas and using problems that pique students mathematical curiosity this work aims to prepare readers for all upper division mathematics courses and improve their skills in presenting coherent arguments

**Advanced Mathematical Thinking** David Tall,2006-04-11 Advanced Mathematical Thinking has played a central role in the development of human civilization for over two millennia Yet in all that time the serious study of the nature of advanced mathematical thinking what it is how it functions in the minds of expert mathematicians how it can be encouraged and improved in the developing minds of students has been limited to the reflections of a few significant individuals scattered throughout the history of mathematics In the twentieth century the theory of mathematical education during the compulsory years of schooling to age 16 has developed its own body of empirical research theory and practice But the extensions of such theories to more advanced levels have only occurred in the last few years In 1976 The International Group for the Psychology of Mathematics known as PME was formed and has met annually at different venues round the world to share research ideas In 1985 a Working Group of PME was formed to focus on Advanced Mathematical Thinking with a major aim of producing this volume The text begins with an introductory chapter on the psychology of advanced mathematical thinking with the remaining chapters grouped under three headings the nature of advanced mathematical thinking cognitive theory and reviews of the progress of cognitive research into different areas of advanced mathematics

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ELEMENTARY CONCEPTS Numbers Sets and Functions Language and Proofs Properties of

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areas The intended audience includes students advanced high school and college and folks in general who are interested in improving their analytical thinking skills and at the same time learning some mathematics For those who don't deal with mathematics on a regular basis this will not be an easy read but hopefully the benefits will be worth it The prerequisites are fairly basic i.e. high school algebra a little bit of basic geometry and some prior exposure to mathematical proofs Most of the topics in the book are developed from basic principles

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