

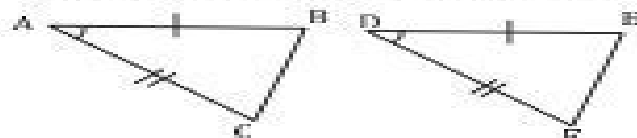
# Proofs Involving Congruent Triangles

First, let's analyze some proofs.

This is easy! All you have to do is explain in plain English what is going on in the proofs. We'll look at some examples first.

AE. 1.

Given:  $\overline{AB} \cong \overline{DE}$ ,  $\overline{AC} \cong \overline{DF}$ , and  $\angle A \cong \angle D$



Prove:  $\triangle ABC \cong \triangle DEF$

Statements	Reasons
1. $\overline{AB} \cong \overline{DE}$	1. Given
2. $\overline{AC} \cong \overline{DF}$	2. Given
3. $\angle A \cong \angle D$	3. Given
4. $\triangle ABC \cong \triangle DEF$	4. SAS

AE. 2.

Given:  $\overline{AB} \cong \overline{CD}$ ,  $\overline{AD} \cong \overline{CB}$

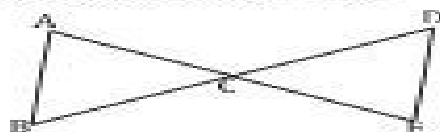


Prove:  $\triangle ABD \cong \triangle CBD$

Statements	Reasons
1. $\overline{AB} \cong \overline{CD}$	1. Given
2. $\overline{AD} \cong \overline{CB}$	2. Given
3. $\overline{BD} \cong \overline{BD}$	3. Reflexive property
4. $\triangle ABD \cong \triangle CBD$	4. SSS

AE. 3.

Given:  $\overline{AE}$  Bisects  $\overline{BD}$ ,  $\angle B \cong \angle D$



Prove:  $\triangle ABC \cong \triangle DEC$

Statements	Reasons
1. $\angle B \cong \angle D$	1. Given
2. $\overline{AC}$ Bisects $\overline{BD}$	2. Given
3. $\overline{BC} \cong \overline{DC}$	3. Definition of Bisect
4. $\angle ACB \cong \angle DCE$	4. Vertical angles
5. $\triangle ABC \cong \triangle DEC$	5. ASA

Analysis:

Working backward we must ask the key question, "How can we show that two triangles are congruent?"

The answer? A triangle congruence theorem like SSS, SAS, ASA, AAS or HL. This gives us B1:  $\triangle ABC \cong \triangle DEF$ , by some property, but which one? To find out, start working forward. Listing all of the given information gives us a pair of angles  $\angle A$  and  $\angle D$  sandwiched between a pair of congruent sides  $\overline{AB} \cong \overline{DE}$  and  $\overline{AC} \cong \overline{DF}$ . So this means we have  $\triangle ABC \cong \triangle DEF$  by the SAS theorem which is B2: and the proof is complete.

Analysis:

Working backward, we must ask the key question, "How can we show that two triangles are congruent?"

The answer? A triangle congruence theorem like SSS, SAS, ASA, AAS or HL. This gives us B1:  $\triangle ABC \cong \triangle BCD$  by some property, but which one? Then start working forward. Listing all of the given information gives us two pairs of sides  $\overline{AB} \cong \overline{CD}$  and  $\overline{AD} \cong \overline{CB}$ , but this is not enough. We need another pair of sides or an angle between them. Looking now at the diagram we have  $\overline{BD} \cong \overline{BD}$  as a shared line. So this brings us to say  $\triangle ABC \cong \triangle BCD$  by SSS which is B1 and the proof is complete.

Analysis:

Working backward we must ask the key question, "How can we show that two triangles are congruent?"

The answer? A triangle congruence theorem like SSS, SAS, ASA, AAS or HL. This gives us B1:  $\triangle ABC \cong \triangle DEC$  by some property, but which one? Then start working forward. Listing all of the given information gives us a pair of angles  $\angle B$  and  $\angle D$ , and  $\overline{BD}$  and  $\overline{AE}$  bisects  $\overline{BD}$ . If  $\overline{AE}$  bisects  $\overline{BD}$  then  $\overline{BD}$  is cut in half at  $C$  so  $\overline{BC} \cong \overline{DC}$ ! This is not enough though. Looking at the diagram we see vertical angles  $\angle ACB \cong \angle DCE$ , which gives us  $\triangle ABC \cong \triangle DEC$  by the property ASA. This is B1 and the proof is complete.

# 2010 Proofs Involving Congruent Triangles

**Despina A. Stylianou, Maria L.  
Blanton, Eric J. Knuth**



## 2010 Proofs Involving Congruent Triangles:

*Modern Mathematics* Dirk De Bock, 2023-03-08 The international New Math developments between about 1950 through 1980 are regarded by many mathematics educators and education historians as the most historically important development in curricula of the twentieth century It attracted the attention of local and international politicians of teachers and of parents and influenced the teaching and learning of mathematics at all levels kindergarten to college graduate in many nations After garnering much initial support it began to attract criticism But as Bill Jacob and the late Jerry Becker show in Chapter 17 some of the effects became entrenched This volume edited by Professor Dirk De Bock of Belgium provides an outstanding overview of the New Math modern mathematics movement Chapter authors provide exceptionally high quality analyses of the rise of the movement and of subsequent developments within a range of nations The first few chapters show how the initial leadership came from mathematicians in European nations and in the United States of America The background leaders in Europe were Caleb Gattegno and members of a mysterious group of mainly French pure mathematicians who since the 1930s had published under the name of a fictitious Nicolas Bourbaki In the United States there emerged during the 1950s various attempts to improve U S mathematics curricula and teaching especially in secondary schools and colleges This side of the story climaxed in 1957 when the Soviet Union succeeded in launching Sputnik the first satellite Undoubtedly this is a landmark publication in education The foreword was written by Professor Bob Moon one of a few other scholars to have written on the New Math from an international perspective The final epilogue chapter by Professor Geert Vanpaemel a historian draws together the overall thrust of the volume and makes links with the general history of curriculum development especially in science education including recent globalization trends

*Math Unlimited* R. Sujatha, H. N. Ramaswamy, C. S. Yogananda, 2011-11-11 This collection of essays spans pure and applied mathematics Readers interested in mathematical research and historical aspects of mathematics will appreciate the enlightening content of the material Highlighting the pervasive nature of mathematics today in a host of different areas the book also covers the spread of mathematical ideas and techn

Asian Research in Mathematics Education Bill Atweh, Lianghuo Fan, Catherine P. Vistro-Yu, 2023-05-17 This book focuses on the development of research in mathematics education cultures and its products from the perspective of local educators It consists of contributions from Mainland China Indonesia Korea Macao Singapore the Philippines and Turkey This book examines the development of the culture of research in the respective countries and also reviews the research conducted in the recent past in mathematics education It takes a critical stance through identifying the various accomplishments and identifying challenges for the future of research in terms of its diversification and quality Divided into two sections the first section considers factors around the development of a research culture in the respective countries by focusing on the means used to develop research expertise and quality The second section consists of overviews of the area of research and methodologies conducted in mathematics education in the various countries with the intention of highlighting

the research topics conducted as well as discussing omissions of such research      Pedagogy of Mathematics Mr. Rohit Manglik, 2023-03-23 In this book we will study about child centered ways to teach mathematical thinking concepts and problem solving      Mathematical Software - ICMS 2010 Komei Fukuda, Joris van der Hoeven, Michael Joswig, Nobuki Takayama, 2010-08-30 The ICMS Developer s Meeting is an international congress for which the main theme is mathematical software The 2010 meeting was the third of a series of meetings of similar theme the rst being held in Beijing China in 2002 and the second in Castro Urdiales Spain in 2006 The eld of mathematics has numerous branches and in each branch we nd that algorithms and also implementations and applications of software s tems are studied Researchers who endeavor to make such studies also have international meetings within their speci c branches of mathematics and these meetings have made signi cant contributions to the elds in which they lie The ICMS International Congresseson Mathematical Software on the other hand is a general not branch speci c meeting on mathematical software which is held every four years and is a rare opportunity for developers of mathematical softwarefrom di erent branchesof mathematics as well as mathematicians who are interested in mathematical software to gather together      Charming Proofs Claudi Alsina, Roger B. Nelsen, 2010 A collection of remarkable proofs that are exceptionally elegant and thus invite the reader to enjoy the beauty of mathematics

*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 **The Mathematics that Every**

**Secondary Math Teacher Needs to Know** Alan Sultan, Alice F. Artzt, 2010-09-13 What knowledge of mathematics do secondary school math teachers need to facilitate understanding competency and interest in mathematics for all of their students This unique text and resource bridges the gap between the mathematics learned in college and the mathematics taught in secondary schools Written in an informal clear and interactive learner centered style it is designed to help pre service and in service teachers gain the deep mathematical insight they need to engage their students in learning mathematics in a multifaceted way that is interesting developmental connected deep understandable and often surprising and entertaining Features include Launch questions at the beginning of each section Student Learning Opportunities Questions from the Classroom and highlighted themes throughout to aid readers in becoming teachers who have great MATH N SIGHT M Multiple Approaches Representations A Applications to Real Life T Technology H History N Nature of Mathematics Reasoning and Proof S Solving Problems I Interlinking Concepts Connections G Grade Levels H Honing of Mathematical Skills T Typical Errors This text is aligned with the recently released Common Core State Standards and is ideally suited for a capstone mathematics course in a secondary mathematics certification program It is also appropriate for any methods or mathematics course for pre or in service secondary mathematics teachers and is a valuable resource for classroom teachers Proofs from THE BOOK Martin Aigner, Günter M. Ziegler, 2010-01-08 Paul Erdos

liked to talk about The Book in which God maintains the perfect proofs for mathematical theorems following the dictum of G H Hardy that there is no permanent place for ugly mathematics Erdos also said that you need not believe in God but as a mathematician you should believe in The Book A few years ago we suggested to him to write up a first and very modest approximation to The Book He was enthusiastic about the idea and characteristically went to work immediately filling page after page with his suggestions Our book was supposed to appear in March 1998 as a present to Erdos 85th birthday With Paul's unfortunate death in the summer of 1996 he is not listed as a co author Instead this book is dedicated to his memory Paul Erdos We have no definition or characterization of what constitutes a proof from The Book all we offer here is the examples that we have selected hoping that our readers will share our enthusiasm about brilliant ideas clever insights and

wonderful observations We also hope that our readers will enjoy this despite the imperfections of our exposition The selection is to a great extent influenced by Paul Erdos himself A large number of the topics were suggested by him and many of the proofs trace directly back to him or were initiated by his supreme insight in asking the right question or in making the right conjecture So to a large extent this book reflects the views of Paul Erdos as to what should be considered a proof from The Book

**Euclidean Geometry** Mark Solomonovich, 2010 This textbook is a self contained presentation of Euclidean Geometry a subject that has been a core part of school curriculum for centuries The discussion is rigorous axiom based written in a traditional manner true to the Euclidean spirit Transformations in the Euclidean plane are included as part of the axiomatics and as a tool for solving construction problems The textbook can be used for teaching a high school or an introductory level college course It can be especially recommended for schools with enriched mathematical programs and for homeschoolers looking for a rigorous traditional discussion of geometry The text is supplied with over 1200 questions and problems ranging from simple to challenging The solutions sections of the book contain about 200 answers and hints to solutions and over 100 detailed solutions involving proofs and constructions More solutions and some supplements for teachers are available in the Instructor's Manual which is issued as a separate book Book Reviews In terms of presentation this text is more rigorous than any existing high school textbook that I know of It is based on a system of axioms that describe incidence postulate a notion of congruence of line segments and assume the existence of enough rigid motions free mobility My gut reaction to the book is wouldn't it be wonderful if American high school students could be exposed to this serious mathematical treatment of elementary geometry instead of all the junk that is presented to them in existing textbooks This book makes no concession to the TV generation of students who want or is it the publishers who want it for them pretty pictures side bars puzzles games historical references cartoons and all those colored images that clutter the pages of a typical modern textbook while the mathematical content is diluted more and more with each successive edition Professor Robin Hartshorne University of California at Berkeley The textbook Euclidean Geometry by Mark Solomonovich fills a big gap in the plethora of mathematical textbooks it provides an exposition of classical geometry with emphasis on logic and rigorous proofs I would be delighted to see this textbook used in Canadian schools in the framework of an improved geometry curriculum Until this day comes I highly recommend Euclidean Geometry by Mark Solomonovich to be used in Mathematics Enrichment Programs across Canada and the USA Professor Yuly Billig Carlton University

**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

*Truth in Science, the Humanities and Religion* International Balzan Foundation,2010-06-14 by the Academies of the two countries to the Italian Swiss University of Lugano for the two day Symposium The question of the meaning of truth is central to many areas of contemporary debate whether between those subscribing to a post Enlightenment view of the world and those who seek fundamental truth in religious texts or between those maintaining that there are absolute truths and those believing facts to be social constructs For some the ultimate truth is revealed through religious faith and t tual authority Can this view be reconciled with an evidence based materialist post Enlightenment perspective of the truth as embraced by the natural sciences If religion holds the key to the truth which religion and which truths During the five thematic sessions of the symposium all attended by the same audience and by all the speakers and panel members these and many other qu tions but in particular the one about the meaning of truth were examined and debated The whole range of perspectives represented on the panels and in the au ence came to the fore After the keynote lecture by Professor Simon Blackburn the five sessions covered the following disciplines philosophy mathematics physics cosmology the biological sciences including biodiversity and sustainability h tory the social sciences theology and religion This volume contains the speakers lectures the corresponding reactions of the invited panel members as well as the panel and general discussions of the two d symposium

**How We Think** Alan H. Schoenfeld,2010-10-18 Teachers try to help their students learn But why do they make the particular teaching choices they do What resources do they draw upon What accounts for the success or failure of their efforts In How We Think esteemed scholar and mathematician Alan H Schoenfeld proposes a groundbreaking theory and model for how we think and act in the classroom and beyond Based on thirty years of research on problem solving and teaching Schoenfeld provides compelling evidence for a concrete approach that describes how teachers and individuals more generally navigate their way through in the moment decision making in well practiced domains Applying his theoretical model to detailed representations and analyses of teachers at work as well as of professionals outside education Schoenfeld argues that understanding and recognizing the goal oriented patterns of our day to day decisions can help identify what makes effective or ineffective behavior in the classroom and beyond Mathematics Framework for the 2011 National Assessment of Educational Progress United States. National Assessment Governing Board,2010 **Mathematics Framework for the ... National Assessment of Educational Progress** ,2010 **Methods for Euclidean Geometry**

Owen Byer, Felix Lazebnik, Deirdre L. Smeltzer, 2010-12-31 Euclidean plane geometry is one of the oldest and most beautiful topics in mathematics. Instead of carefully building geometries from axiom sets, this book uses a wealth of methods to solve problems in Euclidean geometry. Many of these methods arose where existing techniques proved inadequate. In several cases, the new ideas used in solving specific problems later developed into independent areas of mathematics. This book is primarily a geometry textbook, but studying geometry in this way will also develop students' appreciation of the subject and of mathematics as a whole. For instance, despite the fact that the analytic method has been part of mathematics for four centuries, it is rarely a tool a student considers using when faced with a geometry problem. *Methods for Euclidean Geometry* explores the application of a broad range of mathematical topics to the solution of Euclidean problems. **An Episodic**

**History of Mathematics** Steven G. Krantz, 2010-04 *An Episodic History of Mathematics* delivers a series of snapshots of the history of mathematics from ancient times to the twentieth century. The intent is not to be an encyclopedic history of mathematics, but to give the reader a sense of mathematical culture and history. The book abounds with stories and personalities that play a strong role. The book will introduce readers to some of the genesis of mathematical ideas. Mathematical history is exciting and rewarding and is a significant slice of the intellectual pie. A good education consists of learning different methods of discourse, and certainly mathematics is one of the most well developed and important modes of discourse that we have. The focus in this text is on getting involved with mathematics and solving problems. Every chapter ends with a detailed problem set that will provide the student with many avenues for exploration and many new entrees into the subject. *Uses of Technology in Primary and Secondary Mathematics Education* Lynda Ball, Paul Drijvers, Silke

Ladel, Hans-Stefan Siller, Michal Tabach, Colleen Vale, 2018-05-14 This book provides international perspectives on the use of digital technologies in primary, lower secondary, and upper secondary school mathematics. It gathers contributions by the members of three topic study groups from the 13th International Congress on Mathematical Education and covers a range of themes that will appeal to researchers and practitioners alike. The chapters include studies on technologies such as virtual manipulatives, apps, custom-built assessment tools, dynamic geometry, computer algebra systems, and communication tools. Chiefly focusing on teaching and learning mathematics, the book also includes two chapters that address the evidence for technologies' effects on school mathematics. The diverse technologies considered provide a broad overview of the potential that digital solutions hold in connection with teaching and learning. The chapters provide both a snapshot of the status quo of technologies in school mathematics and outline how they might impact school mathematics ten to twenty years from now.

Handbook of Language and Literacy C. Addison Stone, Elaine R. Silliman, Barbara J. Ehren, Geraldine P. Wallach, 2013-09-24 An acclaimed reference that fills a significant gap in the literature, this volume examines the linkages between spoken and written language development, both typical and atypical. Leading authorities address the impact of specific language-related processes on K-12 literacy learning, with attention to cognitive, neurobiological, sociocultural, and

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Silliman, Barbara J. Ehren, Geraldine P. Wallach, 2016-05-27 An acclaimed reference that fills a significant gap in the literature this volume examines the linkages between spoken and written language development both typical and atypical Leading authorities address the impact of specific language related processes on K 12 literacy learning with attention to cognitive neurobiological sociocultural and instructional issues Approaches to achieving optimal learning outcomes with diverse students are reviewed The volume presents research based practices for assessing student needs and providing effective instruction in all aspects of literacy word recognition reading comprehension writing and spelling New to This Edition Chapters on digital literacy disciplinary literacy and integrative research designs Chapters on bilingualism response to intervention and English language learners Incorporates nearly a decade s worth of empirical and theoretical advances Numerous prior edition chapters have been completely rewritten

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