

Algebraic Proof Worksheet

- Algebraic proofs are two column proofs of standard algebra problems that are solved with reasons for each step. The reasons are from the properties below:

Properties of Equality for Real Numbers	
Reflexive	For every a , a = a
Symmetric	For all numbers a and b , if a = b , then b = a
Transitive	For all numbers a , b , and c , if a = b and b = c , then a = c
Addition & Subtraction	For all numbers a , b , and c , if a = b , then a + c = b + c and a - c = b - c
Multiplication & Division	For all numbers a , b , and c , if a = b , then ac = bc and if c ≠ 0 , a/c = b/c
Substitution	For all numbers a and b , if a = b , then a may be replaced by b in any equation or expression
Distributive	For all numbers a , b , and c , a(b + c) = ab + ac

Given: $5x - 14 = 2x + 16$

Prove: $x = 10$

Statement	Reason
$5x - 14 = 2x + 16$	Given
$+ 14 = +14$	Addition POE
$5x = 2x + 30$	Substitution (Simplify)
$-2x = -2x$	Subtraction POE
$3x = 30$	Substitution (Simplify)
$\div 3 = \div 3$	Division POE
$x = 10$	Substitution (Simplify)

Remember, after an addition, subtraction, multiplication or division, the next step is always a simplification or substitution step. Now use this example to finish all the problems on the back..

Algebraic Proofs With Answers

Karine Chemla



Algebraic Proofs With Answers:

Proof and Knowledge in Mathematics Michael Detlefsen, 2005-08-18 Distinguished contributors tackle the main problem that arises when considering an epistemology for mathematics the nature and sources of mathematical justification **Key Maths 9/1 Teacher File- Revised** David Baker, Paul Hogan, Barbara Job, Irene Patricia Verity, 2014-11 Fully in line with the Framework for Teaching Mathematics this series provides coverage of the curriculum intended to enable students to revise and consolidate key concepts Every chapter contains questions in the style of the National Tests The three Ma1 tasks in every students book have detailed marking guidance in the equivalent teacher file to support key assessment at the end of the key stage The last resource section of this file contains a series of summary activities for new or previously absent teachers or pupils covering all the chapters Additions such as question banks and ICT CD ROMs are available to provide further support

The History of Mathematical Proof in Ancient Traditions Karine Chemla, 2012-07-05 This radical profoundly scholarly book explores the purposes and nature of proof in a range of historical settings It overturns the view that the first mathematical proofs were in Greek geometry and rested on the logical insights of Aristotle by showing how much of that view is an artefact of nineteenth century historical scholarship It documents the existence of proofs in ancient mathematical writings about numbers and shows that practitioners of mathematics in Mesopotamian Chinese and Indian cultures knew how to prove the correctness of algorithms which are much more prominent outside the limited range of surviving classical Greek texts that historians have taken as the paradigm of ancient mathematics It opens the way to providing the first comprehensive textually based history of proof **Key Maths GCSE**, 2003 Developed for the CCEA Specification this Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets **Discrete Algorithmic Mathematics,**

Third Edition Stephen B. Maurer, Anthony Ralston, 2005-01-21 Thoroughly revised for a one semester course this well known and highly regarded book is an outstanding text for undergraduate discrete mathematics It has been updated with new or extended discussions of order notation generating functions chaos aspects of statistics and computational biology Written in a lively clear style that talks to the reader the book is unique for its emphasis on algorithmics and the inductive and recursive paradigms as central mathematical themes It includes a broad variety of applications not just to mathematics and computer science but to natural and social science as well A manual of selected solutions is available for sale to students see sidebar A complete solution manual is available free to instructors who have adopted the book as a required text **A First Course in Abstract Algebra** Marlow Anderson, Todd Feil, 2014-11-07 Like its popular predecessors this text develops ring theory first by drawing on students familiarity with integers and polynomials This unique approach motivates students in studying abstract algebra and helps them understand the power of abstraction This edition makes it easier to teach unique factorization as an optional topic and reorganizes the core material on rings integral domains and fields Along with new

exercises on Galois theory it also includes a more detailed treatment of permutations as well as new chapters on Sylow theorems

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

Proofs of the Cantor-Bernstein Theorem Arie Hinkis, 2013-02-26 This book offers an excursion through the developmental area of research mathematics It presents some 40 papers published between the 1870s and the 1970s on proofs of the Cantor Bernstein theorem and the related Bernstein division theorem While the emphasis is placed on providing accurate proofs similar to the originals the discussion is broadened to include aspects that pertain to the methodology of the development of mathematics and to the philosophy of mathematics Works of prominent mathematicians and logicians are reviewed including Cantor Dedekind Schr der Bernstein Borel Zermelo Poincar Russell Peano the K nigs Hausdorff Sierpinski Tarski Banach Brouwer and several others mainly of the Polish and the Dutch schools In its attempt to present a diachronic narrative of one mathematical topic the book resembles Lakatos celebrated book *Proofs and Refutations* Indeed some of the observations made by Lakatos are corroborated herein The analogy between the two books is clearly anything but superficial as the present book also offers new theoretical insights into the methodology of the development of mathematics proof processing with implications for the historiography of mathematics

Learning Mathematics Anthony Orton, 2004-12-30 Why do some students achieve more than others Do we have to wait until pupils are ready Can children discover math for themselves Does language interfere with the learning of math This classic text written from the viewpoint of the math teacher provides answers to these and many more questions Each chapter explores a particular issue that illustrates the interaction between theory and practice New chapters have been included on cognition pattern and ICT

Combinatorial, Computational, and Applied Algebraic Geometry Serkan Ho?ten, Diane Maclagan, Frank Sottile, 2025-10-01 This volume consists of surveys on topics to which Bernd Sturmfels has

contributed over his mathematical career invariant theory Gr bner bases toric ideals and varieties algebraic methods in discrete and convex optimization hypergeometric systems algebraic statistics likelihood geometry tropical geometry chemical reaction networks numerical methods in algebraic geometry sums of squares tropical geometry tensors and algebraic vision Each article gives a gentle introduction to the topic Many contributions summarize the state of the art in each subject The volume is perfect for anyone who wishes an entry point to any one of these diverse topics Key Maths David Baker,2001

Planned developed and written by practising classroom teachers with a wide variety of experience in schools this maths course has been designed to be enjoyable and motivating for pupils and teachers The course is open and accessible to pupils of all abilities and backgrounds and is differentiated to provide material which is appropriate for all pupils It provides spiral coverage of the curriculum which involves regular revisiting of key concepts to promote familiarity through practice This teacher s file is designed for stage two of Year 9 *Developing Students' Reasoning in Precalculus: Covariational Explorations Enriched by Rates of Change and Limits* Andrzej Sokolowski,2024-12-09 This book aims to develop high school and undergraduate students covariational reasoning and algebraic skills to succeed in calculus and STEM subjects The book reflects on contemporary research in math education where students explore algebraic tools and reason mathematically to construct new knowledge The volume is made up of six chapters covering polynomial rational and transcendental functions An early introduction of limits to support the analyses of linear functions progresses to other book chapters ensuring consistency parallelism and a scaffold knowledge delivery A gradual introduction to function rates of change along with function monotonicity and concavity intertwines with modeling techniques that merge students mathematical reasoning with scientific contexts A forthcoming online component of the book consists of ready to download exploratory modeling activities and worksheets that further solidify students fluency in understanding how to apply abstract math concepts to gain a deeper understanding of natural and social sciences Mathematics Education Barbara Allen,Sue Johnston-Wilder,2003-12-16

Mathematics Education identifies some of the most significant issues in mathematics education today Pulling together relevant articles from authors well known in their fields of study the book addresses topical issues such as gender equity attitude teacher belief and knowledge community of practice autonomy and agency assessment technology The subject is dealt with in three parts culture of the mathematics classroom communication in mathematics classrooms and pupils and teachers perceptions Students on postgraduate courses in mathematics education will find this book a valuable resource Students on BEd and PGCE courses will also find this a useful source of reference as will teachers of mathematics mentors and advisers **Key Maths GCSE** David Baker,2002-01-25 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for non specialist useful supplementary ideas and homework sheets 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

Classical Algebra Roger L. Cooke, 2008-03-31 This insightful book combines the history pedagogy and popularization of algebra to present a unified discussion of the subject Classical Algebra provides a complete and contemporary perspective on classical polynomial algebra through the exploration of how it was developed and how it exists today With a focus on prominent areas such as the numerical solutions of equations the systematic study of equations and Galois theory this book facilitates a thorough understanding of algebra and illustrates how the concepts of modern algebra originally developed from classical algebraic precursors This book successfully ties together the disconnect between classical and modern algebra and provides readers with answers to many fascinating questions that typically go unexamined including What is algebra about How did it arise What uses does it have How did it develop What problems and issues have occurred in its history How were these problems and issues resolved The author answers these questions and more shedding light on a rich history of the subject from ancient and medieval times to the present Structured as eleven lessons that are intended to give the reader further insight on classical algebra each chapter contains thought provoking problems and stimulating questions for which complete answers are provided in an appendix Complemented with a mixture of historical remarks and analyses of polynomial equations throughout Classical Algebra Its Nature Origins and Uses is an excellent book for mathematics courses at the undergraduate level It also serves as a valuable resource to anyone with a general interest in mathematics

Journey into Discrete Mathematics Owen D. Byer, Deirdre L. Smeltzer, Kenneth L. Wantz, 2018-11-13 Journey into Discrete Mathematics is designed for use in a first course in mathematical abstraction for early career undergraduate mathematics majors The

important ideas of discrete mathematics are included logic sets proof writing relations counting number theory and graph theory in a manner that promotes development of a mathematical mindset and prepares students for further study While the treatment is designed to prepare the student reader for the mathematics major the book remains attractive and appealing to students of computer science and other problem solving disciplines The exposition is exquisite and engaging and features detailed descriptions of the thought processes that one might follow to attack the problems of mathematics The problems are appealing and vary widely in depth and difficulty Careful design of the book helps the student reader learn to think like a mathematician through the exposition and the problems provided Several of the core topics including counting number theory and graph theory are visited twice once in an introductory manner and then again in a later chapter with more advanced concepts and with a deeper perspective Owen D Byer and Deirdre L Smeltzer are both Professors of Mathematics at Eastern Mennonite University Kenneth L Wantz is Professor of Mathematics at Regent University Collectively the authors have specialized expertise and research publications ranging widely over discrete mathematics and have over fifty semesters of combined experience in teaching this subject

You Failed Your Math Test, Comrade Einstein Mikhail A. Shifman, 2005 This groundbreaking work features two essays written by the renowned mathematician Ilan Vardi The first essay presents a thorough analysis of contrived problems suggested to undesirable applicants to the Department of Mathematics of Moscow University His second essay gives an in depth discussion of solutions to the Year 2000 International Mathematical Olympiad with emphasis on the comparison of the olympiad problems to those given at the Moscow University entrance examinations The second part of the book provides a historical background of a unique phenomenon in mathematics which flourished in the 1970s 80s in the USSR Specially designed math problems were used not to test students ingenuity and creativity but rather as killer problems to deny access to higher education to undesirable applicants The focus of this part is the 1980 essay Intellectual Genocide written by B Kanevsky and V Senderov It is being published for the first time Also featured is a little known page of the Soviet history a rare example of the oppressed organizing to defend their dignity This is the story of the so called Jewish People s University the inception of which is associated with Kanevsky Senderov and Bella Subbotovskaya

Combinatorial Mathematics Douglas B. West, 2021 This is the most readable and thorough graduate textbook and reference for combinatorics covering enumeration graphs sets and methods

Enlightening Symbols Joseph Mazur, 2014-03-23 An entertaining look at the origins of mathematical symbols While all of us regularly use basic math symbols such as those for plus minus and equals few of us know that many of these symbols weren t available before the sixteenth century What did mathematicians rely on for their work before then And how did mathematical notations evolve into what we know today In Enlightening Symbols popular math writer Joseph Mazur explains the fascinating history behind the development of our mathematical notation system He shows how symbols were used initially how one symbol replaced another over time and how written math was conveyed before and after symbols became widely adopted Traversing

mathematical history and the foundations of numerals in different cultures Mazur looks at how historians have disagreed over the origins of the numerical system for the past two centuries He follows the transfigurations of algebra from a rhetorical style to a symbolic one demonstrating that most algebra before the sixteenth century was written in prose or in verse employing the written names of numerals Mazur also investigates the subconscious and psychological effects that mathematical symbols have had on mathematical thought moods meaning communication and comprehension He considers how these symbols influence us through similarity association identity resemblance and repeated imagery how they lead to new ideas by subconscious associations how they make connections between experience and the unknown and how they contribute to the communication of basic mathematics From words to abbreviations to symbols this book shows how math evolved to the familiar forms we use today

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