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KEY=VOLUME - LARSEN LIU

A HISTORY OF GREEK MATHEMATICS, VOLUME I

FROM THALES TO EUCLID

Courier Corporation Volume 1 of an authoritative two-volume set that covers the essentials of mathematics and features every landmark innovation and every important figure, including Euclid, Apollonius, Archimedes, and others.

INTERNATIONAL HANDBOOK OF MATHEMATICS TEACHER EDUCATION: VOLUME 1

KNOWLEDGE, BELIEFS, AND IDENTITY IN MATHEMATICS TEACHING AND TEACHING DEVELOPMENT (SECOND EDITION)

BRILL Knowledge, Beliefs, and Identity in Mathematics Teaching and Teaching Development examines teacher knowledge, beliefs, identity, practice and relationships among them. These important aspects of mathematics teacher education continue to be the focus of extensive research and policy debate globally.

MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS

Cengage Learning MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS, 6E offers future teachers a comprehensive mathematics course designed to foster concept development through examples, investigations, and explorations. In this text, intended for the one- or two-semester course required of Education majors, Bassarear demonstrates that there are many paths to solving a problem, and sometimes problems have more than one solution. The author presents real-world problems—problems that require active learning in a method similar to how archaeologists explore an archaeological find: they carefully uncover the site, slowly revealing more and more of the structure. Visual icons throughout the main text allow instructors to easily connect content to the hands-on activities in the corresponding Explorations Manual. With this exposure, future teachers will be better able to assess student needs using diverse approaches. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

THE PYTHAGOREAN THEOREM

A 4,000-YEAR HISTORY

Princeton University Press An exploration of one of the most celebrated and well-known theorems in mathematics By any measure, the Pythagorean theorem is the most famous statement in all of mathematics. In this book, Eli Maor reveals the full story of this ubiquitous geometric theorem. Although attributed to Pythagoras, the theorem was known to the Babylonians more than a thousand years earlier. Pythagoras may have been the first to prove it, but his proof—if indeed he had one—is lost to us. The theorem itself, however, is central to almost every branch of science, pure or applied. Maor brings to life many of the characters that played a role in its history, providing a fascinating backdrop to perhaps our oldest enduring mathematical legacy.

TEACHING SECONDARY SCHOOL MATHEMATICS

RESEARCH AND PRACTICE FOR THE 21ST CENTURY

Routledge Since its first publication, Teaching Secondary School Mathematics has established itself as one of the most respected and popular texts for both pre-service and in-service teachers. This new edition has been fully revised and updated to reflect the major changes brought about by the introduction of the Australian Curriculum: Mathematics, as well as discussing significant research findings, the evolution of digital teaching and learning technologies, and the implications of changes in education policies and practices. The mathematical proficiencies that now underpin the Australian curriculum -- understanding, fluency, problem solving and reasoning -- are covered in depth in Part 1, and a new section is devoted to the concept of numeracy. The chapter on digital tools and resources has been significantly expanded to reflect the growing use of these technologies in the classroom, while the importance of assessment is recognised with new material on assessment for learning and as learning, along with a consideration of policy development in this area. Important research findings on common student misconceptions and new and effective approaches for teaching key mathematical skills are covered in detail. As per the first edition readers will find a practical guide to pedagogical approaches and the planning and enactment of lessons together with enhanced chapters on teaching effectively for diversity, managing issues of inequality and developing effective relationships with parents and the community. This book is the essential pedagogical tool for every emerging teacher of secondary school mathematics. 'The text offers an excellent resource for all of those involved in the preparation of secondary mathematics teachers, with links to research literature, exemplars of classroom practices, and instructional activities that encourage readers to actively examine and critique practices within their own educational settings.' Professor Glenda Anthony, Institute of Education, Massey University 'A rich and engaging textbook that covers all of the important aspects of learning to become an effective secondary mathematics teacher. The second edition of this text ... is further enhanced with updated references to the Australian Curriculum, NAPLAN, STEM, current Indigenous, social justice and gender inequity issues, and the place of Australian mathematics curricula on the world stage.' Dr Christine Ormond, Senior Lecturer, Edith Cowan University

CAMBRIDGE IGCSE MATHEMATICS EXTENDED PRACTICE BOOK

Cambridge University Press A series of titles written to cover the complete Cambridge IGCSE Mathematics (0580) syllabus and endorsed by Cambridge International Examinations.

CAMBRIDGE IGCSE CORE MATHEMATICS PRACTICE BOOK

Cambridge University Press A series of titles written to cover the complete Cambridge IGCSE Mathematics (0580) syllabus and endorsed by Cambridge International Examinations.

CAMBRIDGE IGCSE® MATHEMATICS CORE AND EXTENDED COURSEBOOK

Cambridge University Press This Cambridge IGCSE® Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE® Mathematics syllabus (0580/0980), for first examination from 2020. This second edition of Cambridge IGCSE® Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics (0580/0980) syllabus. It contains detailed explanations and clear worked examples, followed by practice exercises to allow students to consolidate the required mathematical skills. The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end-of-chapter and exam-practice exercises. Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level. Answers are at the back of the book.

CAMBRIDGE IGCSE MATHEMATICS CORE AND EXTENDED COURSEBOOK WITH CD-ROM

Cambridge University Press Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015.

INTERNATIONAL HANDBOOK OF MATHEMATICS TEACHER EDUCATION: VOLUME 4

THE MATHEMATICS TEACHER EDUCATOR AS A DEVELOPING PROFESSIONAL (SECOND EDITION)

BRILL This fourth volume addresses teacher educators' knowledge, learning and practice with teachers/instructors of mathematics. It provides practical, professional and theoretical perspectives of different approaches/activities/programmes to promote effective teacher education practice, with valuable implications for research.

PROFESSIONAL DEVELOPMENT AND KNOWLEDGE OF MATHEMATICS TEACHERS

Routledge Mathematics teaching and professional development of mathematics teachers are areas where research has increased substantially in recent years. In this dynamic field, mathematics teaching practices, pedagogical knowledge of mathematics teachers and professional development via collaboration between mathematics teachers have emerged as vital domains of inquiry. Professional Development and Knowledge of Mathematics Teachers addresses the underlying characteristics of mathematics teacher education, and those professional development contexts that have a positive impact on teachers' professional learning. Recognizing the impact of broader institutional settings on mathematics teaching and teacher professional development, the editors suggest bridging the gaps between theoretical practices and methodological approaches in the field by focusing on and conceptualizing the following relational factors: The study of mathematics teaching and classroom situations Researching teacher and teacher educator knowledge, since these issues inform the quality of mathematics teaching directly Mathematics teacher education and professional development, focusing on design principles and the impact they have on teacher professional learning Combining central issues of mathematics teaching, knowledge and professional development, the chapters in this volume address each of the above factors and provide profound considerations on both theoretical and practical levels. This book will be an essential resource for researchers, teachers and students working in the fields of mathematics teaching and mathematics teacher professional development.

RESOURCES FOR TEACHING MATHEMATICS: 14-16

A&C Black

PAIDEIA: THE IDEALS OF GREEK CULTURE: VOLUME I. ARCHAIC GREECE: THE MIND OF ATHENS

Oxford University Press Werner Jaeger's classic three-volume work, originally published in 1939, is now available in paperback. Paideia, the shaping of Greek character through a union of civilization, tradition, literature, and philosophy is the basis for Jaeger's evaluation of Hellenic culture. Volume I describes the foundation, growth, and crisis of Greek culture during the archaic and classical epochs, ending with the collapse of the Athenian empire. The second and third volumes of the work deal with the intellectual history of ancient Greece in the Age of Plato, the 4th century B.C.--the age in which Greece lost everything that is valued in this world--state, power, liberty--but still clung to the concept of paideia. As its last great poet, Menander summarized the primary role of this ideal in Greek culture when he said: The possession which no one can take away from man is paideia.

BOWKER'S COMPLETE VIDEO DIRECTORY

BULLETIN OF THE ATOMIC SCIENTISTS

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

THE EMERGENCE AND NATURE OF HUMAN HISTORY VOLUME ONE

Lulu.com This book attempts to define the issues that face us in trying to understand the often-overwhelming complexity of the human experience. It is intellectually challenging, broad in its scope, richly detailed, and densely argued. It is the first in a projected series of five volumes in which the author will seek to touch on every aspect of human historical reality and all the multitudinous variables that have shaped it.

IMPLEMENTING AND TEACHING GUIDE

PRESOCRATIC REFLEXIVITY: THE CONSTRUCTION OF PHILOSOPHICAL DISCOURSE C. 600-450 B.C.

LOGOLOGICAL INVESTIGATIONS: VOLUME THREE

Routledge In this third Volume of Logological Investigations Sandywell continues his sociological reconstruction of the origins of reflexive thought and discourse with special reference to pre-Socratic philosophy and science and their socio-political context.

PRIMARY MATHEMATICS AUDIT AND TEST

Learning Matters If you are a primary trainee, you must demonstrate a knowledge of mathematics to be recommended for QTS. This popular, widely recommended text helps you audit your knowledge of mathematics and understand what learning you need to pass your course. A rigorous test helps you identify your strengths and weaknesses and can be revisited at key stages in your course as a tool to monitor and evaluate progress. The fourth edition has been updated in line with the new National Curriculum, includes more information on expanding and developing your knowledge of mathematics and is linked to the newest Teachers' Standards.

MAKING EUROPE: THE STORY OF THE WEST, VOLUME I TO 1790

Cengage Learning Developed by a team of authors who have spent many years making history accessible to a diverse range of readers, each chapter of MAKING EUROPE begins with clear learning objectives and timelines, and continues with an accessible narrative that uses focus questions throughout the text to help all readers understand historical concepts. The Check-In feature and the Test Yourself questions at the end of each chapter help you assess your understanding of the material. The text uses stories of ordinary people and their impact on history, and visually stunning images and maps that make learning history interesting. Available in the following split options: MAKING EUROPE, Second Edition Complete; Since 1300; Volume 1: To 1790; and Volume 2: Since 1550. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

THE MATHEMATICAL UNIVERSE

FROM PYTHAGORAS TO PLANCK

Springer Nature I first had a quick look, then I started reading it. I couldn't stop. -Gerard 't Hooft (Nobel Prize, in Physics 1999) This is a book about the mathematical nature of our Universe. Armed with no more than basic high school mathematics, Dr. Joel L. Schiff takes you on a foray through some of the most intriguing aspects of the world around us. Along the way, you will visit the bizarre world of subatomic particles, honey bees and ants, galaxies, black holes, infinity, and more. Included are such goodies as measuring the speed of light with your microwave oven, determining the size of the Earth with a stick in the ground and the age of the Solar System from meteorites, understanding how the Theory of Relativity makes your everyday GPS system possible, and so much more. These topics are easily accessible to anyone who has ever brushed up against the Pythagorean Theorem and the symbol π, with the lightest dusting of algebra. Through this book, science-curious readers will come to appreciate the patterns, seeming contradictions, and extraordinary mathematical beauty of our Universe.

FRAMEWORK MATHS

This book offers all you need to implement effective lessons whatever your expertise:BLObjectives and useful resources identified at the start so that you can plan aheadBLPractical support for the three-part lesson, including mental startersBLExercise commentary so you can differentiate effectively even within ability groupsBLCommon misconceptions highlighted so you can helpstudents overcome difficultiesBLLots of ideas for engaging activities and investigationsBLReference to materials on CD-ROM such as ICT activities, OHTs and homeworkBLLeading to the 6-8 tier of entry in the NC LeveltestsBLUnits in the Summer term help bridge to GCSE.

ONTOLOGY OF SEX

Routledge Poststructuralism, particularly through the writings of Michel Foucault and Judith Butler, has achieved remarkable success in challenging our belief in natural sex categories and instincts. Here, Carrie Hull endorses the progressive ideals of poststructuralism while demonstrating the superiority of a realist account of sex and sexuality. Embracing biological and cultural variability, Hull nonetheless shows that the sexed body is naturally structured and deeply meaningful. Poststructuralist philosophers have argued that biological sex is a continuum rather than a binary, and that sex identity and drive are entirely performances of cultural norms rather than expressions of innate qualities. Hull draws parallels with Nelson Goodman, W.V.O. Quine, and B.F. Skinner to show that these poststructuralist theories are rooted in a nominalist, relativist, and behaviourist philosophy, and develops an alternative framework using arguments from contemporary and critical realism. Employing colourful illustrations from biology, anthropology and psychology, Hull demonstrates the rich potential of realist philosophy, and concludes that it is philosophically and scientifically correct, on one hand, and politically advisable, on the other, to maintain a distinction - albeit attenuated - between sex and gender, and sexuality and behaviour.

A HISTORY OF GREEK PHILOSOPHY: VOLUME 1, THE EARLIER PRESOCRATICS AND THE PYTHAGOREANS

Cambridge University Press Surveys Greek thought through a critical discussion of the major schools and philosophers

AN ARISTOTELIAN REALIST PHILOSOPHY OF MATHEMATICS

MATHEMATICS AS THE SCIENCE OF QUANTITY AND STRUCTURE

Springer Mathematics is as much a science of the real world as biology is. It is the science of the world's quantitative aspects (such as ratio) and structural or patterned aspects (such as symmetry). The book develops a complete philosophy of mathematics that contrasts with the usual Platonist and nominalist options.

MEASURING HEAVEN

PYTHAGORAS AND HIS INFLUENCE ON THOUGHT AND ART IN ANTIQUITY AND THE MIDDLE AGES

Cornell University Press Surviving fragments of information about Pythagoras (born ca. 570 BCE) gave rise to a growing set of legends about this famous sage and his followers, whose reputations throughout Antiquity and the Middle Ages have never before been studied systematically. This book is the first to examine the unified concepts of harmony, proportion, form, and order that were attributed to Pythagoras in the millennium after his death and the important developments to which they led in art, architecture, mathematics, astronomy, music, medicine, morals, religion, law, alchemy, and the occult sciences. In this profusely illustrated book, Christiane L. Joost-Gaugier sets out the panorama of Pythagoras's influence and that of Christian and Jewish thinkers who followed his ideas in the Greek, Roman, early Christian, and medieval worlds. In illuminating this tradition of thought, Joost-Gaugier shows how the influence of Pythagoreanism was far broader than is usually realized, and that it affected the development of ancient and medieval art and architecture from Greek and Roman temples to Gothic cathedrals. Joost-Gaugier demonstrates that Pythagoreanism—centered on the dim memory of a single person that endured for centuries and grew ever-greater—inspired a new language for artists and architects, enabling them to be "modern."

POPULAR SCIENCE

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

A HISTORY OF GREEK PHILOSOPHY: VOLUME 3, THE FIFTH CENTURY ENLIGHTENMENT, PART 1, THE SOPHISTS

Cambridge University Press The third volume of Professor Guthrie's great history of Greek thought, entitled The Fifth-Century Enlightenment, deals in two parts with the Sophists and Socrates, the key

figures in the dramatic and fundamental shift of philosophical interest from the physical universe to man. Each of these parts is now available as a paperback with the text, bibliography and indexes amended where necessary so that each part is self-contained. The Sophists assesses the contribution of individuals like Protagoras, Gorgias and Hippias to the extraordinary intellectual and moral fermant in fifth-century Athens. They questioned the bases of morality, religion and organized society itself and the nature of knowledge and language; they initiated a whole series of important and continuing debates, and they provoked Socrates and Plato to a major restatement and defence of traditional values.

JUNIOR HIGH SCHOOL MATHEMATICS

COMPANION ENCYCLOPEDIA OF THE HISTORY AND PHILOSOPHY OF THE MATHEMATICAL SCIENCES

VOLUME ONE

Routledge First published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

VISIONS IN MATHEMATICS

GAFA 2000 SPECIAL VOLUME, PART I PP. 1-453

Springer Science & Business Media "Visions in Mathematics - Towards 2000" was one of the most remarkable mathematical meetings in recent years. It was held in Tel Aviv from August 25th to September 3rd, 1999, and united some of the leading mathematicians worldwide. The goals of the conference were to discuss the importance, the methods, the past and the future of mathematics as we enter the 21st century and to consider the connection between mathematics and related areas. The aims of the conference are reflected in the present set of survey articles, documenting the state of art and future prospects in many branches of mathematics of current interest. This is the first part of a two-volume set that will serve any research mathematician or advanced student as an overview and guideline through the multifaceted body of mathematical research in the present and near future.

GUIDING CHILDREN'S LEARNING OF MATHEMATICS

Cengage Learning This thorough and practical guide to teaching mathematics for grades K-6 is a perfect combination of a math methods text and resource book for pre-service and in-service elementary school teachers. The text's organization uses the Common Core State Standards as its overarching framework. Over 275 lesson activities reinforce the standards and include many examples of cooperative learning strategies, take-home activities, and activities using technology such as apps. Content chapters first develop a math topic, and then extend the same topic, providing foundational material that can be used throughout the elementary grades. Other useful features highlight misconceptions often held about math operations and concepts, ways to be inclusive of various cultural backgrounds, and key technology resources. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

OPTIMIZATION AND OPERATIONS RESEARCH – VOLUME I

EOLSS Publications Optimization and Operations Research is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Optimization and Operations Research is organized into six different topics which represent the main scientific areas of the theme: 1. Fundamentals of Operations Research; 2. Advanced Deterministic Operations Research; 3. Optimization in Infinite Dimensions; 4. Game Theory; 5. Stochastic Operations Research; 6. Decision Analysis, which are then expanded into multiple subtopics, each as a chapter. These four volumes are aimed at the following five major target audiences: University and College students Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

VIDEO SOURCEBOOK

A GUIDE TO PROGRAMS CURRENTLY AVAILABLE ON VIDEO IN THE AREAS OF: MOVIES/ENTERTAINMENT, GENERAL INTEREST/EDUCATION, SPORTS/RECREATION, FINE ARTS, HEAL

Gale Cengage From classroom aids to corporate training programs, technical resources to self-help guides, children's features to documentaries, theatrical releases to straight-to-video movies, The Video Source Book continues its comprehensive coverage of the wide universe of video offerings with more than 130,000 complete program listings, encompassing more than 160,000 videos. All listings are arranged alphabetically by title. Each entry provides a description of the program and information on obtaining the title. Six indexes -- alternate title, subject, credits, awards, special formats and program distributors -- help speed research.

A HISTORY OF GREEK PHILOSOPHY: VOLUME 2, THE PRESOCRATIC TRADITION FROM PARMENIDES TO DEMOCRITUS

Cambridge University Press Surveys Greek thought through a critical discussion of the major schools and philosophers

GETTING TO KNOW CONNECTED MATHEMATICS

AN IMPLEMENTATION GUIDE

FUNDAMENTALS OF PHYSICS - VOLUME II

EOLSS Publications Fundamentals of Physics is a component of Encyclopedia of Physical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty Encyclopedias. The Theme on Fundamentals of Physics provides an overview of the modern areas in physics, most of which had been crystallized in the 20th century, is given. The Theme on Fundamentals of Physics deals, in three volumes and cover several topics, with a myriad of issues of great relevance to our world such as: Historical Review of Elementary Concepts in Physics; Laws of Physical Systems; Particles and Fields; Quantum Systems; Order and Disorder in Nature; Topical Review: Nuclear Processes, which are then expanded into multiple subtopics, each as a chapter. These three volumes are aimed at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers, NGOs and GOs.

AN INVESTIGATION OF THE LAWS OF THOUGHT

ON WHICH ARE FOUNDED THE MATHEMATICAL THEORIES OF LOGIC AND PROBABILITIES

STUDIES IN GREEK PHILOSOPHY, VOLUME II

SOCRATES, PLATO, AND THEIR TRADITION

Princeton University Press Gregory Vlastos (1907-1991) was one of the twentieth century's most influential scholars of ancient philosophy. Over a span of more than fifty years, he published essays and book reviews that established his place as a leading authority on early Greek philosophy. The two volumes that comprise Studies in Greek Philosophy include nearly forty contributions by this acknowledged master of the philosophical essay. Many of these pieces are now considered to be classics in the field. Perhaps more than any other modern scholar, Gregory Vlastos was responsible for raising standards of research, analysis, and exposition in classical philosophy to new levels of excellence. His essays have served as paradigms of scholarship for several generations. Available for the first time in a comprehensive collection, these contributions reveal the author's ability to combine the skills of a philosopher, philologist, and historian of ideas in addressing some of the most difficult problems of ancient philosophy. Volume I collects Vlastos's essays on Presocratic philosophy. Wide-ranging concept studies link Greek science, religion, and politics with philosophy. Individual studies illuminate the thought of major philosophers such as Heraclitus, Parmenides, Anaxagoras, and Democritus. A magisterial series of studies on Zeno of Elea reveals the author's power in source criticism and logical analysis. Volume II contains essays on the thought of Socrates, Plato, and later thinkers and essays dealing with ethical, social, and political issues as well as metaphysics, science, and the foundations of mathematics.

QUANTUM FIELD THEORY I: BASICS IN MATHEMATICS AND PHYSICS

A BRIDGE BETWEEN MATHEMATICIANS AND PHYSICISTS

Springer Science & Business Media This is the first volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists, at levels ranging from advanced undergraduate students to professional scientists. The book bridges the acknowledged gap between the different languages used by mathematicians and physicists. For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics. For students of physics, fairly advanced mathematics is presented, which goes beyond the usual curriculum in physics.