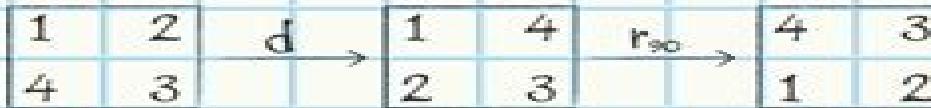# A Friendly Introduction to Abstract Algebra

Ryota Matsuura
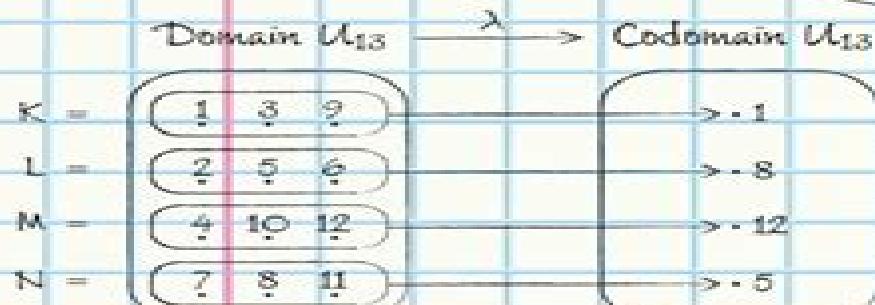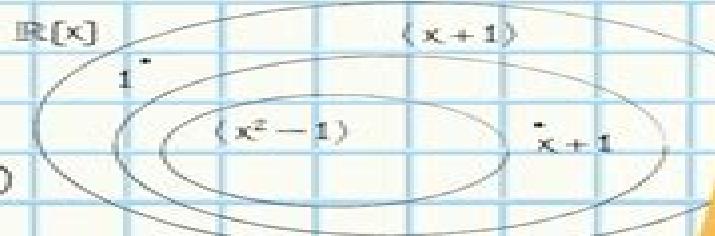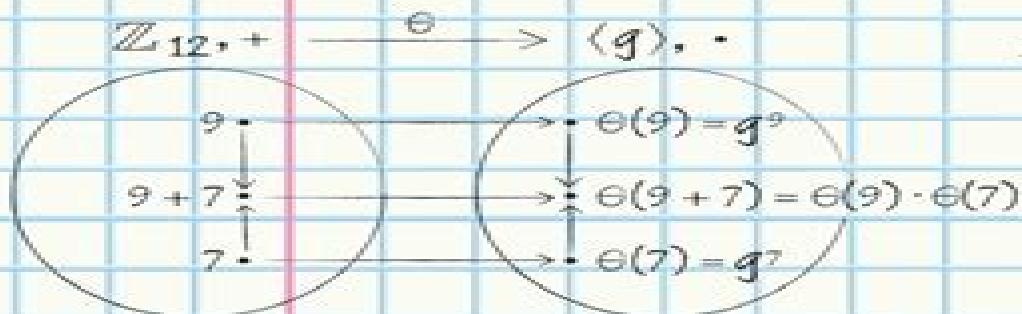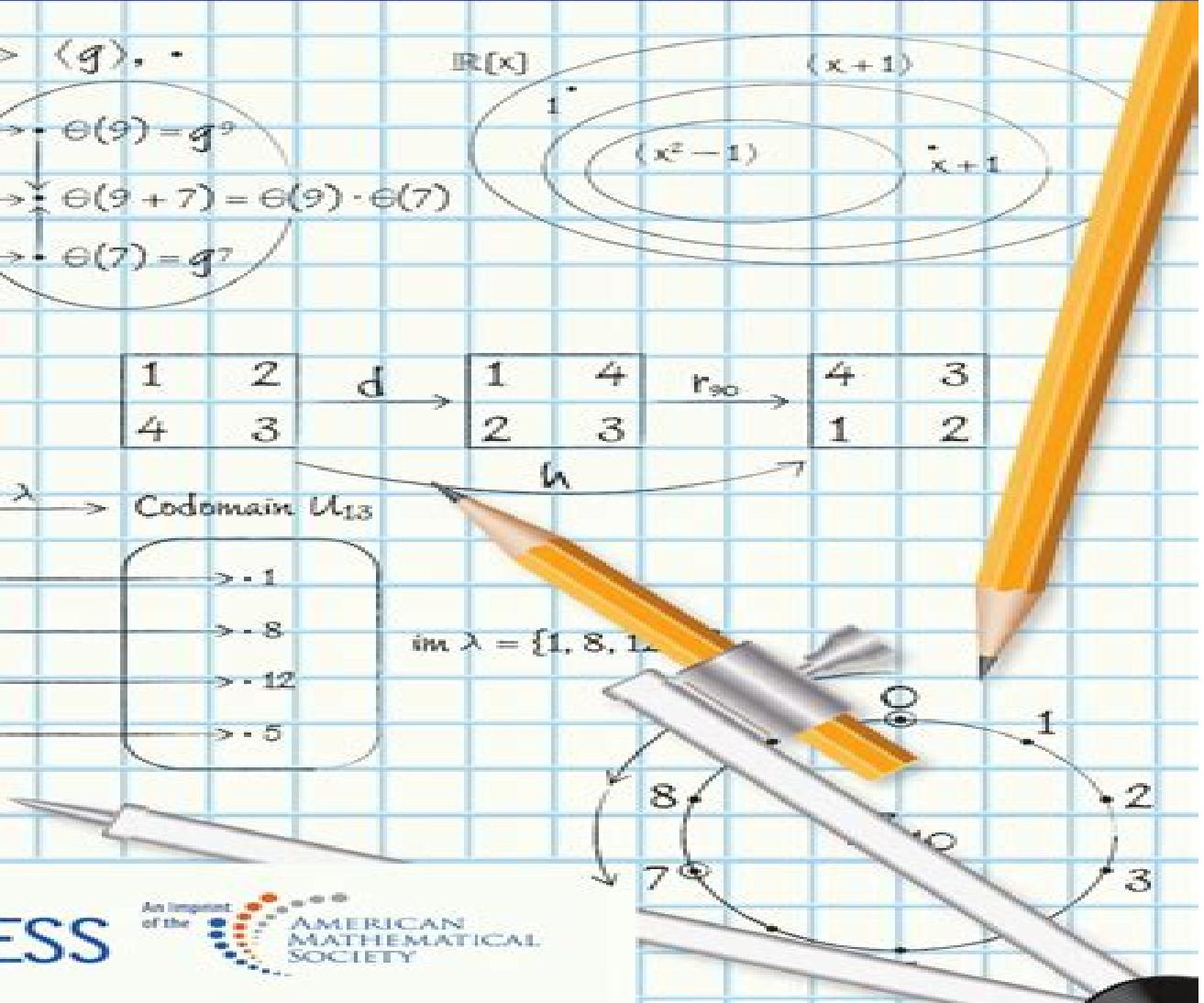
Modern Abstract Algebra

Ronald Solomon

Modern Abstract Algebra:

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Abstract Algebra ,1964   **Contemporary Abstract Algebra** Joseph Gallian,2021-01-19 Contemporary Abstract Algebra
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and suggested readings that give the subject a current feel and makes the content interesting and relevant for students   **A
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presents an introduction to modern abstract algebra covering the basic ideas of groups rings and fields The first part of the
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statements their meaning quantification negation and proof This edition features a new section to give more substance to the introduction to Galois theory updated lists of references and discussions of topics such as Fermat s Last Theorem and the finite simple groups **Modern abstract algebra** Richard Vernon Andree,1971 **Introduction to Modern Abstract Algebra** David M. Burton,1967 **A History of Abstract Algebra** Jeremy Gray,2018-08-07 This textbook provides an accessible account of the history of abstract algebra tracing a range of topics in modern algebra and number theory back to their modest presence in the seventeenth and eighteenth centuries and exploring the impact of ideas on the development of the subject Beginning with Gauss s theory of numbers and Galois s ideas the book progresses to Dedekind and Kronecker Jordan and Klein Steinitz Hilbert and Emmy Noether Approaching mathematical topics from a historical perspective the author explores quadratic forms quadratic reciprocity Fermat s Last Theorem cyclotomy quintic equations Galois theory commutative rings abstract fields ideal theory invariant theory and group theory Readers will learn what Galois accomplished how difficult the proofs of his theorems were and how important Camille Jordan and Felix Klein were in the eventual acceptance of Galois s approach to the solution of equations The book also describes the relationship between Kummer s ideal numbers and Dedekind s ideals and discusses why Dedekind felt his solution to the divisor problem was better than Kummer s Designed for a course in the history of modern algebra this book is aimed at undergraduate students with an introductory background in algebra but will also appeal to researchers with a general interest in the topic With exercises at the end of each chapter and appendices providing material difficult to find elsewhere this book is self contained and therefore suitable for self study **Introduction to Modern Algebra and Its Applications** Nadiya Gubareni,2021-06-23 The book provides an introduction to modern abstract algebra and its applications It covers all major topics of classical theory of numbers groups rings fields and finite dimensional algebras The book also provides interesting and important modern applications in such subjects as Cryptography Coding Theory Computer Science and Physics In particular it considers algorithm RSA secret sharing algorithms Diffie Hellman Scheme and ElGamal cryptosystem based on discrete logarithm problem It also presents Buchberger s algorithm which is one of the important algorithms for constructing Gr bner basis Key Features Covers all major topics of classical theory of modern abstract algebra such as groups rings and fields and their applications In addition it provides the introduction to the number theory theory of finite fields finite dimensional algebras and their applications Provides interesting and important modern applications in such subjects as Cryptography Coding Theory Computer Science and Physics Presents numerous examples illustrating the theory and applications It is also filled with a number of exercises of various difficulty Describes in detail the construction of the Cayley Dickson construction for finite dimensional algebras in particular algebras of quaternions and octonions and gives their applications in the number theory and computer graphics **A Text Book of Modern Abstract Algebra** Shanti Narayan,Sat Pal,1979 **A Text Book of Modern Abstract Algebra** Shanti Harayan,1972 **Modern Algebra and Discrete Structures** R. F. Lax,1991

This text offers students clarity and instructors flexibility Its thorough coverage of applications algorithms and examples and its inclusion of many proofs explain and reinforce the material Its traditional organization makes it a suitable text for several courses Attention to contemporary topics such as key cryptosystems and coding theory makes the text current It is flexible enough to be used for courses in applied algebra or modern abstract algebra **Abstract Algebra** Ronald Solomon,2009 This undergraduate text takes a novel approach to the standard introductory material on groups rings and fields At the heart of the text is a semi historical journey through the early decades of the subject as it emerged in the revolutionary work of Euler Lagrange Gauss and Galois Avoiding excessive abstraction whenever possible the text focuses on the central problem of studying the solutions of polynomial equations Highlights include a proof of the Fundamental Theorem of Algebra essentially due to Euler and a proof of the constructability of the regular 17 gon in the manner of Gauss Another novel feature is the introduction of groups through a meditation on the meaning of congruence in the work of Euclid Everywhere in the text the goal is to make clear the links connecting abstract algebra to Euclidean geometry high school algebra and trigonometry in the hope that students pursuing a career as secondary mathematics educators will carry away a deeper and richer understanding of the high school mathematics curriculum Another goal is to encourage students insofar as possible in a textbook format to build the course for themselves with exercises integrally embedded in the text of each chapter

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