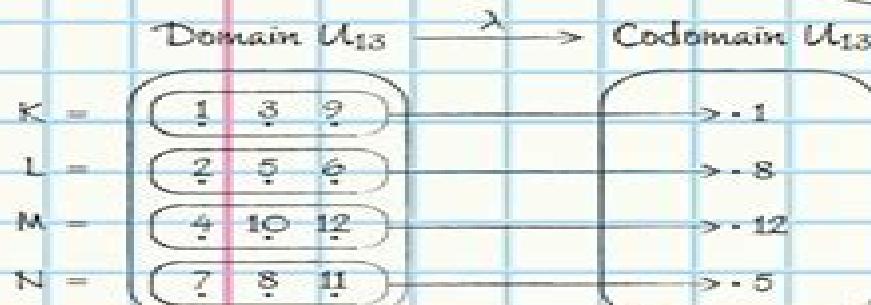
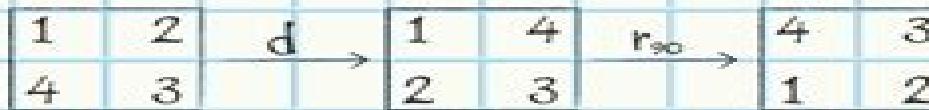
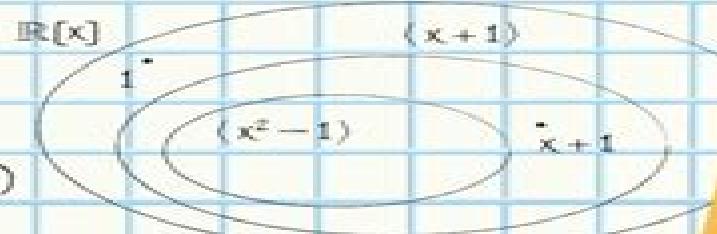
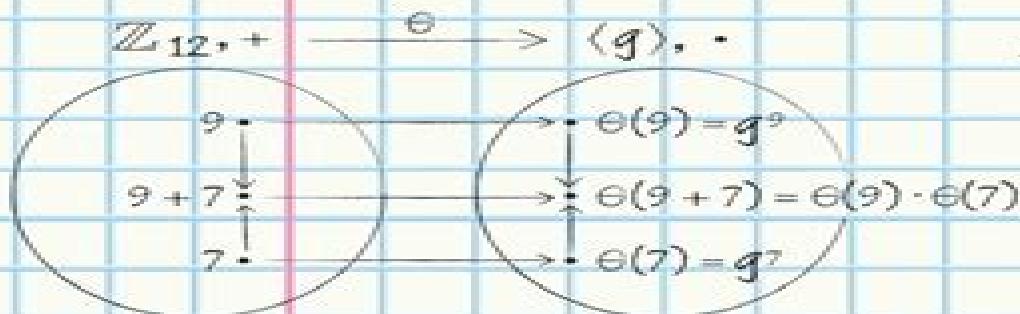


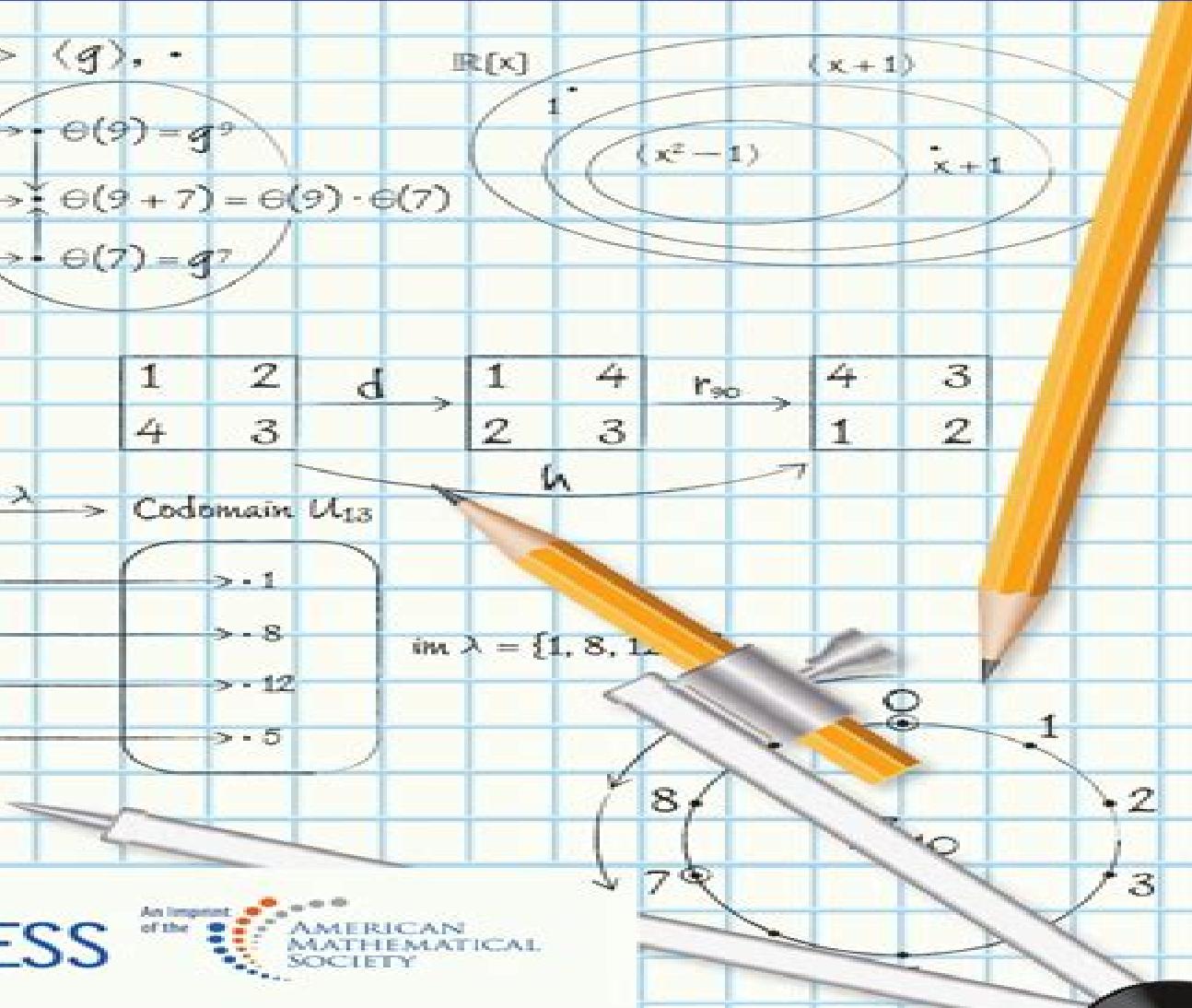
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Selections from Modern Abstract Algebra Richard

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EDITION Sheth,Sheth I. H.,2009 Introduction To Abstract Algebra, An: Sets, Groups, Rings, And Fields Steven Howard Weintraub,2022-05-25 This book is a textbook for a semester long or year long introductory course in abstract algebra at the upper undergraduate or beginning graduate level It treats set theory group theory ring and ideal theory and field theory including Galois theory and culminates with a treatment of Dedekind rings including rings of algebraic integers In addition to treating standard topics it contains material not often dealt with in books at this level It provides a fresh perspective on the subjects it covers with in particular distinctive treatments of factorization theory in integral domains and of Galois theory As

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When a student of mathematics studies abstract algebra he or she inevitably faces questions in the vein of What is abstract algebra or What makes it abstract Algebra in its broadest sense describes a way of thinking about classes of sets equipped with binary operations In high school algebra a student explores properties of operations and on real numbers Abstract algebra studies properties of operations without specifying what types of number or object we work with Any theorem established in the abstract context holds not only for real numbers but for every possible algebraic structure that has operations with the stated properties This textbook intends to serve as a first course in abstract algebra The selection of topics serves both of the common trends in such a course a balanced introduction to groups rings and fields or a course that primarily emphasizes group theory The writing style is student centered conscientiously motivating definitions and offering many illustrative examples Various sections or sometimes just examples or exercises introduce applications to geometry number theory cryptography and many other areas This book offers a unique feature in the lists of projects at the end of each section the author does not view projects as just something extra or cute but rather an opportunity for a student to work on and demonstrate their potential for open ended investigation The projects ideas come in two flavors investigative or expository The investigative projects briefly present a topic and posed open ended questions that invite the student to explore the topic asking and to trying to answer their own questions Expository projects invite the student to explore a topic with algebraic content or pertain to a particular mathematician s work through responsible research The exercises challenge the student to prove new results using the theorems presented in the text The student then becomes an active participant in the development of the field *A History of Abstract Algebra* Jeremy Gray,2018-08-07

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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 Abstract Algebra Elbert Walker,1987 **Abstract Algebra** Joseph H.

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