

# Topics in Algebra solution

Sung Jong Lee, lovekrand.github.io

December 8, 2020

## Problems in Section 5.8.

1. In  $S_5$  show that  $(1, 2)$  and  $(1, 2, 3, 4, 5)$  generate  $S_5$ .

*Proof.* Refer the Problem 11, Section 2.10. □

2. In  $S_5$  show that  $(1, 2)$  and  $(1, 3, 2, 4, 5)$  generate  $S_5$ .

*Proof.* If we could generate  $(2, 3)$ , then  $(2, 3)^{-1}(1, 3, 2, 4, 5)(2, 3) = (1, 2, 3, 4, 5)$ . Thus, it is enough to show that  $(2, 3)$  can be generated by  $(1, 2)$  and  $(1, 3, 2, 4, 5)$ . Note that

$$\{(1, 3, 2, 4, 5)^{-j}(1, 2)(1, 3, 2, 4, 5)^j : j \in \mathbb{Z}\} = \{(1, 2), (3, 4), (2, 5), (4, 1), (5, 3)\}$$

$(1, 2)(1, 3, 2, 4, 5) = (1, 4, 5)(2, 3)$  and  $(1, 2)(2, 5)(4, 1) = (1, 5, 2, 4)$ . Moreover,

$$(1, 5, 2, 4) \cdot (1, 4, 5)(2, 3) \cdot (5, 3) = (2, 5, 3) \cdot (5, 3) = (2, 3).$$

Therefore,  $(1, 2)$  and  $(1, 3, 2, 4, 5)$  generates  $S_5$ . □

3. If  $p > 2$  is a prime, show that  $(1, 2)$  and  $(1, 2, \dots, p-1, p)$  generates  $S_p$ .

*Proof.* Refer the Problem 11, Section 2.10. □

4. Prove that any transposition and  $p$ -cycle in  $S_p$ ,  $p$  a prime, generates  $S_p$ .

*Proof.* Let  $\sigma = (a, b, \dots, c, d)$  and  $\tau = (e, f)$  be an  $p$ -cycle and a transposition in  $S_p$  respectively. Note that, as  $\sigma$  is a  $p$ -cycle and hence, for some  $1 \leq k \leq p-1$ ,  $\sigma^k$  sends  $e$  to 1. Thus, without lossing of generality, we can assume that  $\tau = (1, f')$ . Now rearranging  $\sigma$  as  $\sigma = (1, a', \dots, c', d')$ , there exists  $1 \leq t \leq p-1$  such that  $\sigma^t = (1, f', \dots)$ . Note that as  $p$  being a prime,  $(1, f', \dots)$  is also a  $p$ -cycle. Just as we have done at the beginning, rearranging  $(1, 2, \dots, p)$  gives  $f' = 2$  and moreover,  $(1, 2, \dots, p-1, p)$ . Now applying the Problem 3, we conclude that  $\sigma$  and  $\tau$  generates  $S_p$ . □

# Herstein Topics In Algebra Solutions Chapter 4

**Ayman Badawi**



## **Herstein Topics In Algebra Solutions Chapter 4:**

Abstract Algebra Manual Ayman Badawi,2004 This is the most current textbook in teaching the basic concepts of abstract algebra The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem Therefore this is a hands on manual where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned Each chapter begins with a statement of a major result in Group and Ring Theory followed by problems and solutions Contents Tools and Major Results of Groups Problems in Group Theory Tools and Major Results of Ring Theory Problems in Ring Theory Index Topics in Algebra I. N. Herstein,1991-01-16 New edition includes extensive revisions of the material on finite groups and Galois Theory New problems added throughout Solutions Manual Precalculus Mathematics 2ND Editi On Moore,1977-06 *Mastering Algebra* Sachin Nambeesan,2025-02-20 Mastering Algebra is a comprehensive and student friendly exploration of fundamental principles and advanced applications of algebra tailored specifically for undergraduate students We provide a valuable resource for those seeking to deepen their understanding of algebraic theory and its diverse range of applications across various disciplines Our book starts with foundational concepts such as algebraic manipulation equation solving and functions It then progresses to more advanced topics including linear algebra abstract algebra and algebraic geometry offering a seamless transition from basic to advanced algebraic theory What sets this book apart is its emphasis on clarity coherence and practical relevance Each chapter is meticulously crafted to provide clear explanations of complex concepts supported by illustrative examples and thought provoking exercises that encourage active learning and critical thinking Furthermore Mastering Algebra highlights the practical applications of algebra in fields such as physics computer science engineering and economics demonstrating its importance and versatility in solving real world problems Whether you are a mathematics major looking to deepen your understanding of algebraic theory or a student from another discipline seeking to strengthen your quantitative skills this book is your essential companion on the journey to mastering algebra Prepare to embark on an enriching intellectual adventure that will empower you to unlock the full potential of algebraic concepts and their applications

**A Gentle Introduction to Group Theory** Bana Al Subaiei,Muneerah Al Nuwairan,2023-05-31 The book is intended to serve as an introductory course in group theory geared towards second year university students It aims to provide them with the background needed to pursue more advanced courses in algebra and to provide a rich source of examples and exercises Studying group theory began in the late eighteenth century and is still gaining importance due to its applications in physics chemistry geometry and many fields in mathematics The text is broadly divided into three parts The first part establishes the prerequisite knowledge required to study group theory This includes topics in set theory geometry and number theory Each of the chapters ends with solved and unsolved exercises relating to the topic By doing this the authors hope to fill the gaps between all the branches in mathematics that are linked to group theory The second part is the

core of the book which discusses topics on semigroups groups symmetric groups subgroups homomorphisms isomorphism and Abelian groups The last part of the book introduces SAGE a mathematical software that is used to solve group theory problems Here most of the important commands in SAGE are explained and many examples and exercises are provided

*Introductory Mathematics: Algebra and Analysis* Geoffrey C. Smith, 2012-12-06 This text provides a lively introduction to pure mathematics It begins with sets functions and relations proof by induction and contradiction complex numbers vectors and matrices and provides a brief introduction to group theory It moves onto analysis providing a gentle introduction to epsilon delta technology and finishes with continuity and functions The book features numerous exercises of varying difficulty throughout the text

**Problems in Group Theory** John D. Dixon, 2007-01-01 265 challenging problems in all phases of group theory gathered for the most part from papers published since 1950 although some classics are included

*Discrete Mathematics Using Latin Squares* Charles F. Laywine, Gary L. Mullen, 1998-09-17 Over the past two decades research in the theory of Latin Squares has been growing at a fast pace and new significant developments have taken place This book offers a unique approach to various areas of discrete mathematics through the use of Latin Squares

[An Introduction to Finite Projective Planes](#) Abraham Adrian Albert, Reuben Sandler, 2015-02-18 Text for both beginning and advanced undergraduate and graduate students covers finite planes field planes coordinates in an arbitrary plane central collineations and the little Desargues property the fundamental theorem and non Desarguesian planes 1968 edition

*The Publishers Weekly*, 1964

**An Introduction to Finite Projective Plans** Abraham Adrian Albert, Reuben Sandler, 1968

**An Introduction to Algebraic Structures** Joseph Landin, 1989-01-01 As the author notes in the preface The purpose of this book is to acquaint a broad spectrum of students with what is today known as abstract algebra Written for a one semester course this self contained text includes numerous examples designed to base the definitions and theorems on experience to illustrate the theory with concrete examples in familiar contexts and to give the student extensive computational practice The first three chapters progress in a relatively leisurely fashion and include abundant detail to make them as comprehensible as possible Chapter One provides a short course in sets and numbers for students lacking those prerequisites rendering the book largely self contained While Chapters Four and Five are more challenging they are well within the reach of the serious student The exercises have been carefully chosen for maximum usefulness Some are formal and manipulative illustrating the theory and helping to develop computational skills Others constitute an integral part of the theory by asking the student to supply proofs or parts of proofs omitted from the text Still others stretch mathematical imaginations by calling for both conjectures and proofs Taken together text and exercises comprise an excellent introduction to the power and elegance of abstract algebra Now available in this inexpensive edition the book is accessible to a wide range of students who will find it an exceptionally valuable resource Unabridged corrected Dover 1989 republication of the edition published by Allyn and Bacon Boston 1969

**Nonlinear Dynamics, Volume 1** Gan Kerschen, 2025-08-07 Nonlinear Dynamics Volume 1 Proceedings of the 33rd

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**Abstract Algebra** David R. Finston, Patrick J. Morandi, 2014-08-29 This text seeks to generate interest in abstract algebra by introducing each new structure and topic via a real world application The down to earth presentation is accessible to a readership with no prior knowledge of abstract algebra Students are led to algebraic concepts and questions in a natural way through their everyday experiences Applications include Identification numbers and modular arithmetic linear error correcting codes including cyclic codes ruler and compass constructions cryptography symmetry of patterns in the real plane Abstract Algebra Structure and Application is suitable as a text for a first course on abstract algebra whose main purpose is to generate interest in the subject or as a supplementary text for more advanced courses The material paves the way to subsequent courses that further develop the theory of abstract algebra and will appeal to students of mathematics mathematics education computer science and engineering interested in applications of algebraic concepts *Nonlinear Dynamics, Volume 1* Gaëtan Kerschen, 2015-08-14 Nonlinear Dynamics Volume 1 Proceedings of the 33rd IMAC A Conference and Exposition on Balancing Simulation and Testing 2015 the first volume of ten from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Nonlinear Oscillations Nonlinear Simulation Using Harmonic Balance Nonlinear Modal Analysis Nonlinear System Identification Nonlinear Modeling Simulation Nonlinearity in Practice Nonlinear Systems Round Robin on Nonlinear System Identification **Scientific and Technical Books in Print**, 1972 **Mathematical Reviews**, 1994 *Functional Identities* Matej Brešar, Mikhail A. Chebotar, Wallace S. Martindale, 2007-08-08 A functional identity FI can be informally described as an identical relation involving arbitrary elements  $\alpha, \beta$  in a ring  $R$  together with unknown functions  $f, g$  more precisely  $\alpha f(\beta) = \beta g(\alpha)$  The goal of the general FI theory is to determine the form of these functions or when this is not possible to determine the structure of the ring admitting the FI in question This theory has turned out to be a powerful tool for solving a variety of problems in different areas It is not always easy to recognize that the problem in question can be interpreted through some FI often this is the most intriguing part of the process But once one succeeds in discovering an FI that fits into the general theory this abstract theory then as a rule yields the desired conclusions at a high level of generality Among classical algebraic concepts the one of a polynomial identity PI seems to be at least on the surface the closest one to the concept of an FI In fact a PI is formally just a very special example of an FI where functions are

polynomials However the theory of PI has quite different goals than the theory of FI's One could say especially from the point of view of applications that the two theories are complementary to each other Under some natural restrictions PI theory deals with rings that are close to algebras of low dimensions while FI theory gives definitive answers in algebras of sufficiently large or infinite dimensions

**Canadian Journal of Mathematics**, 1971      **Aspects of Combinatorics and Combinatorial Number Theory** Sukumar Das Adhikari, 2002

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