

# Solutions I.N. Herstein- Second Edition

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Please email me if any corrections at sadiqzahoor@outlook.net.

**Problem 0.1.** In the following determine whether the systems described are groups. If they are not, point out which of the group axioms fail to hold.

(a).  $G = \text{set of integers, } ab = a - b$ .

(b).  $G = \text{set of all positive integers, } ab = ab, \text{ the usual product of integers.}$

(c).  $G = \alpha_0, \alpha_1, \dots, \alpha_6 \text{ where,}$

$$\begin{aligned} \alpha_i \alpha_j &= \alpha_{i+j} & \text{if } i+j < 7, \\ \alpha_i \alpha_j &= \alpha_{i+j-7} & \text{if } i+j \geq 7 \end{aligned}$$

(for instance,  $\alpha_5 \alpha_4 = \alpha_{5+4-7} = \alpha_2$ , since  $5+4 = 9 > 7$ ).

(d).  $G = \text{set of all rational numbers with odd denominators, } ab = a + b, \text{ the usual addition of rational numbers.}$

*Proof.* (a).  $G = \text{set of integers, } ab = a - b$ .

We note  $G$  is not a group as there exists no identity in  $G$ .

(b).  $G = \text{set of all positive integers, } ab = ab, \text{ the usual product of integers.}$

We note  $G$  is not a group as the inverses do not belong in  $G$  for all elements of  $G$ . For example, inverse of 2 is  $\frac{1}{2} \notin \mathbb{Z}^+$ .

(c).  $G = \alpha_0, \alpha_1, \dots, \alpha_6 \text{ where,}$

$$\begin{aligned} \alpha_i \alpha_j &= \alpha_{i+j} & \text{if } i+j < 7, \\ \alpha_i \alpha_j &= \alpha_{i+j-7} & \text{if } i+j \geq 7 \end{aligned}$$

(for instance,  $\alpha_5 \alpha_4 = \alpha_{5+4-7} = \alpha_2$ , since  $5+4 = 9 > 7$ ).

We note  $G$  has closure by definition.

We claim  $\alpha_0$  is the identity of  $G$ . This is because  $\alpha_0 \alpha_i = \alpha_i \alpha_0 = \alpha_{0+i} = \alpha_i, \forall i = 1, 2, 3, 4, 5, 6$ .

Next we claim the associative law holds in  $G$ .

—  $i+j < 7, j+k < 7, i+j+k < 7$

Then  $(\alpha_i \alpha_j) \alpha_k = \alpha_{i+j} \alpha_k = \alpha_{i+j+k}$  and  $\alpha_i (\alpha_j \alpha_k) = \alpha_i \alpha_{j+k} = \alpha_{i+j+k}$ .

—  $i+j < 7, j+k < 7, i+j+k > 7$

Then  $(\alpha_i \alpha_j) \alpha_k = \alpha_{i+j} \alpha_k = \alpha_{i+j+k-7}$  and  $\alpha_i (\alpha_j \alpha_k) = \alpha_i \alpha_{j+k} = \alpha_{i+j+k-7}$ .

# Algebra Herstein Solutions Second Edition

**Rocco Chirivì, Ilaria Del Corso, Roberto  
Dvornicich**

## **Algebra Herstein Solutions Second Edition:**

*Basic Abstract Algebra: Exercises And Solutions* Mohammed Hichem Mortad,2022-02-10 This book is mainly intended for first year University students who undertake a basic abstract algebra course as well as instructors It contains the basic notions of abstract algebra through solved exercises as well as a True or False section in each chapter Each chapter also contains an essential background section which makes the book easier to use

**Algebra** Louis Halle Rowen,Uzi Vishne,2025-02-21 Algebra is a subject we have become acquainted with during most of our mathematical education often in connection with the solution of equations Algebra Groups Rings and Fields Second Edition deals with developments related to their solutions The principle at the heart of abstract algebra a subject that enables one to deduce sweeping conclusions from elementary premises is that the process of abstraction enables us to solve a variety of such problems with economy of effort This leads to the glorious world of mathematical discovery This second edition follows the original three pronged approach the theory of finite groups number theory and Galois amazing theory of field extensions tying solvability of equations to group theory As algebra has branched out in many directions the authors strive to keep the text manageable while at the same time introducing the student to exciting new paths In order to support this approach the authors broadened the first edition giving monoids a greater role and relying more on matrices Hundreds of new exercises were added A course in abstract algebra properly presented could treat mathematics as an art as well as a science In this exposition we try to present underlying ideas as well as the results they yield

## **Principles and Procedures of Numerical Analysis** Ferenc Szidarovszky,Sidney J. Yakowitz,2013-11-11 It is an incontestable fact that numerical analysis techniques

are used routinely although not always effectively in virtually every quantitative field of scientific endeavor In this book which is directed toward upper division and graduate level students in engineering and mathematics we have selected for discussion subjects that are traditionally found in numerical analysis texts But our choice of methodology rejects the traditional where analysis and experience clearly warrant such a departure and one of our primary aspirations in this work is to equip the reader with the wherewithal to apply numerical analysis thinking to nontraditional subjects For there is a plethora of computer oriented sciences such as optimization statistics and system analysis and identification that are sorely in need of methods comparable to those related here for classical numerical analysis problems Toward uncovering for the reader the structure of numerical methods we have for example devoted a chapter to a metric space theory for iterative application of operators In this chapter we have collected those definitions and concepts of real and functional analysis that are requisite to a modern intermediate level exposition of the principles of numerical analysis Further we derive the abstract theory most notably the contraction mapping theorem for iteration processes

*Computer Graphics and Geometric Modelling* Max K. Agoston,2005-01-04 Possibly the most comprehensive overview of computer graphics as seen in the context of geometric modeling this two volume work covers implementation and theory in a thorough and systematic fashion

It covers the computer graphics part of the field of geometric modeling and includes all the standard computer graphics topics The CD ROM features two companion programs **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein,2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d Selected Exercises in Algebra Rocco Chirivì,Ilaria Del Corso,Roberto Dvornicich,2020-01-29 This book the first of two volumes contains over 250 selected exercises in Algebra which have featured as exam questions for the Arithmetic course taught by the authors at the University of Pisa Each exercise is presented together with one or more solutions carefully written with consistent language and notation A distinguishing feature of this book is the fact that each exercise is unique and requires some creative thinking in order to be solved The themes covered in this volume are mathematical induction combinatorics modular arithmetic Abelian groups commutative rings polynomials field extensions finite fields The book includes a detailed section recalling relevant theory which can be used as a reference for study and revision A list of preliminary exercises introduces the main techniques to be applied in solving the proposed exam questions This volume is aimed at first year students in Mathematics and Computer Science **Enumerative Combinatorics: Volume 2** Richard P. Stanley,2001-06-04 An introduction suitable for beginning graduate students showing connections to other areas of mathematics *Subject Guide to Books in Print* ,2001 *Mathematical Reviews* ,2003 **Scientific and Technical Books and Serials in Print** ,1984 **Papers Presented at ACM SIGCSE Second Symposium on Education in Computer Science** ,1972 *Hilbert's Problems* Irving Kaplansky,1977 **The American Mathematical Monthly** ,1978 Includes articles as well as notes and other features about mathematics and the profession **The Cumulative Book Index** ,1990 A world list of books in the English language **Technical Report** ,1984 **Computer Graphics and Geometric Modeling: Implementation and algorithms** Max K. Agoston,2004 **Subject Guide to Children's Books in Print** 1997 Bowker Editorial Staff,R R Bowker Publishing,1996-09 Elements of Modern Algebra Jimmie Gilbert,Linda Gilbert,1991 **Van Nostrand's Scientific Encyclopedia** ,1983 Contains terms definitions and explanations in science engineering and technology *The Publishers' Trade List Annual* ,1992

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