

# Solutions I.N. Herstein- Second Edition

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25, July 2016

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**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).  $G =$  set of integers,  $a.b \equiv a - b$ .

(b).  $G =$  set of all positive integers,  $a.b = ab$ , the usual product of integers.

(c).  $G = a_0, a_1, \dots, a_6$  where,

$$\begin{aligned} a_i.a_j &= a_{i+j} & \text{if } i+j < 7, \\ a_i.a_j &= a_{i+j-7} & \text{if } i+j \geq 7 \end{aligned}$$

(for instance,  $a_5.a_4 = a_{5+4-7} = a_2$ , since  $5+4=9 > 7$ ).

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

*Proof.* (a).  $G =$  set of integers,  $a.b \equiv a - b$ .

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

(b).  $G =$  set of all positive integers,  $a.b = ab$ , 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  $\frac{1}{2} \in \mathbb{Z}^+$ .

(c).  $G = a_0, a_1, \dots, a_6$  where,

$$\begin{aligned} a_i.a_j &= a_{i+j} & \text{if } i+j < 7, \\ a_i.a_j &= a_{i+j-7} & \text{if } i+j \geq 7 \end{aligned}$$

(for instance,  $a_5.a_4 = a_{5+4-7} = a_2$ , since  $5+4=9 > 7$ ).

We note  $G$  has closure by definition.

We claim  $a_0$  is the identity of  $G$ . This is because  $a_0.a_i = a_i.a_0 = a_{0+i} = a_i \forall i = 1, 2, 3, 4, 5, 6$ .

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

–  $i+j < 7, j+k < 7, i+j+k < 7$

Then  $(a_i.a_j).a_k = a_{i+j}.a_k = a_{i+j+k}$  and  $a_i.(a_j.a_k) = a_i.a_{j+k} = a_{i+j+k}$ .

–  $i+j < 7, j+k < 7, i+j+k \geq 7$

Then  $(a_i.a_j).a_k = a_{i+j}.a_k = a_{i+j+k-7}$  and  $a_i.(a_j.a_k) = a_i.a_{j+k} = a_{i+j+k-7}$ .

# Algebra Herstein Solutions Second Edition

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



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*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

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