

## Herstein Topics In Algebra Solutions Manual

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### Herstein Topics In Algebra Solutions

Solution: Let some  $a, b \in G$ . So we have  $a^{-1} = a^{-1}$  and  $b^{-1} = b^{-1}$ . Also  $ab \in G$ , therefore  $(ab)^{-1} = b^{-1} a^{-1} = ba$ . So we have  $ab = ba$ , showing  $G$  is abelian. 11. If  $G$  is a group of even order, prove it has an element  $a \neq e$  satisfying  $a^2 = e$ . Solution: We prove the result by contradiction. Note that  $G$  is a finite group. Suppose there is no element  $x$  satisfying  $x^2 = e$  except for  $x = e$ . Thus if some

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edition, written by I.N. Herstein. We have tried to stick with the notations developed in the book as far as possible. But some notations are extremely ambiguous, so to avoid confusion, we resorted to alternate commonly used notations.

## **Solutions to TOPICS IN ALGEBRA**

Problems (some preliminary lemmas on grp theory): (Pg 35 Herstein) 1) See whether group axioms hold for the following: a)  $G = \mathbb{Z}$   $a \cdot b = a - b$  associativity fails:  $(4-3)-1=0, 4-(3-1)=2$  b)  $G = \mathbb{Z}^+$   $a \cdot b = a * b$  inverse may not exist: 2' doesn't exist c)  $G = \{a, 0, 1, \dots, a-6\}$  where  $a \cdot i = a + j$   $(i+j) < 7$   $a \cdot i = a + j - 7$   $(i+j) \geq 7$  It is a group Closure satisfied by definition

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## **Rakesh Balhara - math.iisc.ac.in**

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1 is subset of defined that every element of will lie in set. 2 For any set, defined that the element will lie in or in. 3. For the condition defined that element will lie in or in.

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## **Community - Problem Solving**

The problems below are paraphrased from/inspired by those given in Topics in Algebra by Herstein. The solutions are my own unless otherwise noted. I will generally try, in my solutions, to stick to the development in the text. This means that problems will not be solved using ideas and theorems presented further on in the book.

## **Jonathan Bergknoff: Topics in Algebra, Chapter 4.1**

The book starts with a basic (but complete) introduction to sets, groups, symmetric groups, rings,

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fields and ends with some special topics (simplicity of  $A_4$ , finite fields existence and uniqueness, cyclotomic polynomials, Liouville's criterion, irrationality of  $\pi$ ).

### **Abstract Algebra, 3rd Edition book by I.N. Herstein**

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