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Solution: We have  $(a + b)^2 = (a + b)(a + b) = a(a + b) + b(a + b) = aa + ab + ba + bb = a^2 + ab + ba + b^2$  Hence the result. 3. Find the form of the binomial theorem in a general ring; in other words, find an expression for  $(a + b)^n$ , where  $n$  is a positive integer. Solution: We claim  $(a + b)^n = \sum_{i=0}^n \binom{n}{i} a^i b^{n-i}$  We establish our claim by induction over  $n$ .

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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:  $2^i$  doesn't exist. c)  $G = a_0, a_1, \dots, a_6$  where  $a_i \cdot a_j = a_{i+j}$  if  $i+j < 7$ ,  $a_i \cdot a_j = a_{i-j-7}$  if  $i+j > 7$ .

Group - Chennai Mathematical Institute  
Solution: Let some  $a, b \in G$ . So we have  $a^2 = a \cdot a = b \cdot 1 = b$ . Also  $ab \in G$ , therefore  $ab = (ab) \cdot 1 = b \cdot 1 = ba$ . 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  $x \neq e$  satisfying  $x^2 = e$  except for  $x = e$ . Thus if some

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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 . 4 If for any element is of , it must be the element of . But is element of is not necessary that it is the element of and set is common to both.

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Abstract Algebra Herstein Solutions Manual  
Lemma 1 If  $p$  is a prime number, then; for all integers  $n \neq 2; pn \neq p^2$ : Proof. Suppose  $p^2 | pn$ : Then  $p | n$ . By Wilson's theorem,  $p! \equiv -1 \pmod{p}$ . Thus  $p! \equiv -1 \pmod{p}$ . To conclude  $p | 1$ ; a contradiction since  $p \nmid 1$ : Now let  $n \neq 2$ : Suppose  $pn | p^2$ : Since  $p^2 | pn$  and  $pn | p^2$ ;  $p^2 | pn$  which is a contradiction:

Theorem 1 n 1 Proof. References Topics in Algebra  
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