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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  $(a + b)^n = \sum_{i=0}^n \binom{n}{i} a^{n-i} b^i$ . 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' 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  $(i+j) \geq 7$ .

Group - Chennai Mathematical Institute

Solution: Let some  $a, b \in G$ . So we have  $a^{-1} = a^{-1}$  and  $b^{-1} = b^{-1}$ . Also  $ab \in G$ , therefore  $(ab)^{-1} = b^{-1} a^{-1} = ba^{-1}$ . 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

Solutions to TOPICS IN ALGEBRA

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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Lemma 1 If  $p$  is a prime number, then; for all integers  $n \neq 2; p \nmid n$ : Proof. Suppose  $p^2 \mid n$ : Then  $p \mid n$ . By Wilson's theorem,  $p \mid (n-1)!$ : Thus  $p \mid (n-1)! + 1$ : To conclude  $p \mid 1$ ; a contradiction since  $p > 1$ : Now let  $n \neq 2$ : Suppose  $p \nmid n$ : Since  $p^2 \mid n$  and  $p \nmid n$ ;  $p^2 \mid p$  which is a contradiction:

Theorem 1  $n \neq 1$  Proof. References Topics in Algebra

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