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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^{-1} 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 $i+j \geq 7$.

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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

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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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Lemma 1 If p is a prime number, then; for all integers $n \neq 0$; $p \mid n^2$ implies $p \mid n$. Proof. Suppose $p^2 \mid n^2$. Then $p \mid n$. By Wilson's theorem, $p \mid (p-1)! + 1$. Thus $p \mid (p-1)! + 1 - n^2$. To conclude $p \mid 1$; a

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contradiction since $p \mid 1$: Now let $n \mid 2$: Suppose $pn \mid p^2$: Since $p^2 \mid pn$ and $pn \mid p^2$; $p^2 \mid p^2$ which is a contradiction:

Theorem 1 n 1 Proof. References Topics in Algebra

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