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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: $2 \cdot \frac{1}{2}$ doesn't exist. c) $G = \{a_0, a_1, \dots, a_6\}$ where $a_i \cdot a_j = a_{i+j} < 7$. $a_i \cdot a_j = a_{i+j-7} > 7$.

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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Abstract Algebra Herstein Solutions Manual

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

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

Herstein's Topics is the clearest, most naturally motivated exposition of abstract algebra. At any point in the text, the reader can sense the careful development of the whole. The exercises aren't a grad student's hodgepodge or filter that satisfies the publisher's urging to justify the latest edition.

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