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EditionSolution: 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 . Solutions to TOPICS IN ALGEBRA Solutions to TOPICS IN ALGEBRA Solutions To Mathematics

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14) Suppose a finite set G is closed under associative product and both cancellation laws hold. Prove G is a group. Since G is finite let $G = \{x_1, x_2, \dots, x_n\}$. Look at $S(x_1) = \{x_1, x_1 x_2, x_1 x_2 x_3, \dots, x_1 x_2 x_3 \dots x_n\}$. All these are distinct because of left cancellation law.

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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 $a^{-1} = a$ and $b^{-1} = b$. Also $ab \in G$, therefore $ab^{-1} = (ab)^{-1} = b^{-1} a^{-1} = ba$. 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 solutions to TOPICS IN ALGEBRA 1 is a 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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 $p \mid n$: Then $p \mid n$. By
 Wilson's theorem, $p \mid (n-1)!$
 $p \mid (n-1)! + 1$: Thus $p \mid (n-1)!$
 $p \mid (n-1)! + 1$. To
 conclude $p \mid 1$; a
 contradiction since $p > 1$;
 1: Now let $n \geq 2$:
 Suppose $p \mid n$: Since
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Solution: Let some $a, b \in G$. So we have $a^{-1}a = e$ and $b^{-1}b = e$. Also $(ab)^{-1} = b^{-1}a^{-1}$, therefore $(ab)^{-1}ab = b^{-1}a^{-1}ab = b^{-1}ba = ba$.

So we have $ab = ba$, showing G is abelian.

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let $G = \{x_1, x_2, \dots, x_n\}$

Look at $S(x_1) = \{x_1 x_1,$

$x_1 x_2, x_1 x_3, \dots, x_1 x_n\}$

All these are

distinct because of left

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 Suppose $pn \mid p-$: Since $p^2 \mid pn$ and $pn \mid p-$; $p^2 \mid p-$ which is a contradiction: