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Solution: We have  
 $(a + b)^2 = (a + b)(a + b) = a(a + b) + b(a + b) = aa +$



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$$ab + ba + bb = a^2 + ab + ba + b^2$$

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

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establish our claim  
by induction over  
 $n$ .

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14) Suppose a finite  
set  $G$  is closed

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Under associative product and both cancellation laws hold.  $PT G$  is a group. Since  $G$  is finite let  $G = \{x_1, x_2, \dots, x_n\}$ . Look at  $S(x_1) = \{x_1 \cdot x_1, x_1 \cdot x_2, x_1 \cdot x_3, \dots, x_1 \cdot x_n\}$ . All these are distinct because of left cancellation law. Herstein Topics In Algebra

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a.  $b = a - b$ .  
associativity fails:  $(4 - 3) - 1 = 0, 4 - (3 - 1) = 2$

b)  $G = \mathbb{Z} +$  a.  $b = a * b$ .  
inverse may not exist:  $2'$  doesn't exist. c)  $G = a_0, a_1, \dots, a_6$  where  
 $a_i \cdot a_j = a_{i+j} (i+j) < 7$ .  
 $a_i \cdot a_j = a_{i+j-7} (i+j) \geq 7$

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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  $(ab)^{-1} = (ab)^{-1}$   
 $= b^{-1} a^{-1} = ba^{-1}$ .

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  $a^2 = e$ .



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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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$\mathbb{1}$  is subset of  
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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  
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set is common to  
both.

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Proof. Suppose  $p \nmid n$ . Then  $p \mid n^{p-1} - 1$ . By Wilson's theorem,  $p \mid (n-1)! - 1$ . Thus  $p \mid (n-1)! - 1 - (n^{p-1} - 1)$ . To

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conclude  $p \mid 1$ ; a contradiction since  $p \nmid 1$ . Now let  $n \equiv 2$ : Suppose  $p^n \mid p-1$ . Since  $p^2 \mid p^n$  and  $p^n \mid p-1$ ;  $p^2 \mid p-1$  which is a contradiction:

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