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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  $(ab)^{-1} = b^{-1} a^{-1}$ . 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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Solution: Let  $F$  be some field and  $xy = 0$  for some  $x, y \in F$ . If  $x \neq 0$ , then there must exist  $x^{-1}$ , multiplicative inverse of  $x$  in  $F$ . So we have  $xy = 0 \implies x^{-1}(xy) = x^{-1}(0) \implies (x^{-1}x)y = 0 \implies 1y = 0 \implies y = 0$ . Similarly, when  $y \neq 0$ , we have  $x = 0$ . So  $xy = 0$  implies  $x = 0$  or  $y = 0$ . Therefore  $F$  is an integral domain. Hence any field is an integral domain. 13.

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examples for the discussions of groups, rings, modules, and fields. He is not afraid to visit other areas of mathematics... 3 people found this helpful

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