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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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## **Group - Chennai Mathematical Institute**

This is problem 12, p. 91, in Topics in Algebra by Herstein. I am not sure of my solution and I cannot find solutions online. I would be glad if someone on here could tell me if it's correct and if...

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The problems below are paraphrased from/inspired by those given in Topics in Algebra by Herstein. The solutions are my own unless otherwise noted. I will generally try, in my solutions, to stick to the development in the text. This means that problems will not be solved using ideas and theorems presented further on in the book.

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