

# Download Group Theory Lecture Notes

If  $G$  is a finite group, prove that, given  $x \in G$ , that there is a positive integer  $n$  such that  $x^n = e$ . The smallest such integer is called the order of  $x$  and we write  $|x| = n$ .

Lecture notes: Group theory and its applications in physics  
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Introduction to Group Theory With Applications to Quantum Mechanics and Solid State Physics  
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0 Introduction. Groups and symmetry  
Group Theory can be viewed as the mathematical theory that deals with symmetry, where symmetry has a very general meaning.