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Group theory is the study of groups groups are sets equipped with an operation like multiplication addition or composition that satisfies certain basic properties as the building blocks of abstract algebra groups are so general and fundamental that they arise in nearly every branch of mathematics and the sciences for example the relevance of group theory to atomic physics in the early days of quantum mechanics it introduces

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consisting of a set of elements and a binary operation that can be applied to two elements of the set  
which together satisfy certain axioms these require that the group be closed under the operation the  
combination of any two elements produces group theory  
the book is intended to serve as an introductory course in group theory geared towards  
second year university students it aims to provide them with the background needed to pursue more  
advanced courses in algebra and to provide a rich source of examples and exercises  
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groups exists under these simple definitions this makes the group theory a discriminating field of mathematics to get familiar with various concepts of groups we first show several tangible examples

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