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the central idea behind abstract algebra is to define a larger class of objects sets with extra structure of which Z and Q are definitive members Z groups Z rings Q fields in linear algebra the analogous idea is R^n scalar multiplication vector spaces over R

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applications of abstract algebra a basic knowledge of set theory mathematical induction equivalence relations and matrices is a must even more important is the ability to read and understand mathematical proofs in this chapter we will outline the background needed for a course in abstract algebra 1.1 a short note on proofs

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roughly speaking abstract algebra is the study of what happens when certain properties of number systems are abstracted out for instance altering the definitions of the basic arithmetic operations result in a structure known as a ring so long as the operations are consistent

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alembert section 1 definition and examples 2 section 2 what follows immediately from the definition 3 section 3 bijections 4 section 4

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