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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

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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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Math 113: Abstract Algebra, UCB, Spring 2017

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Group theory - Wikipedia

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instance, algebraic topology uses algebraic objects to study topologies. The Poincaré conjecture, proved in 2003, asserts that the fundamental group of a manifold, which encodes information about connectedness, can be used to determine whether a manifold is a sphere or not.

Abstract algebra - Wikipedia

A significant amount of abstract algebra is used in cryptography generally. Group theory has many applications. One example is in robotics Group Theory application in Robotics, Computer Vision and Computer Graphics. The encoding of information is based on theorems from abstract algebra as well.

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Elementary Abstract Algebra: Examples and Applications ...

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