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ABSTRACT ALGEBRA: AN INTRODUCTION is intended for a first undergraduate course in modern abstract algebra. Its flexible design makes it suitable for courses of various lengths and different levels of mathematical sophistication, ranging from a traditional abstract algebra course to one with a more applied flavor.

Abstract Algebra: An Introduction, 3rd Edition: Thomas W

In mathematics and abstract algebra, group theory studies the algebraic structures known as groups. The concept of a group is central to abstract algebra: other well-known algebraic structures, such as rings, fields, and vector spaces, can all be seen as groups endowed with additional operations and axioms. Groups recur throughout mathematics, and the methods of group theory have influenced many ...

Group theory - Wikipedia

In mathematics, a binary operation is commutative if changing the order of the operands does not change the result. It is a fundamental property of many binary operations, and many mathematical proofs depend on it. Most familiar as the name of the property that says "3 + 4 = 4 + 3" or "2 - 5 = 5 - 2", the property can also be used in more advanced settings.

Commutative property - Wikipedia

The Development of Mathematics, in a Nutshell. Though mathematical knowledge is ancient, stretching back to the Stone Age, the evolution of mathematics to its current modern state has seen fundamental changes in concepts, organization, scope, outlook, and practice. Without understanding the evolution of mathematical thought, it is difficult to appreciate modern mathematics in its contemporary ...

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A complete introduction to partial differential equations, this textbook provides a rigorous yet accessible guide to students in mathematics, physics and engineering.

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Fermat's little theorem) is a theorem in elementary number theory. It states that if p is a prime number, then for any integer a not divisible by p, a^(p-1) is congruent to 1 modulo p. This theorem is a special case of Fermat's theorem on sums of two squares.

Group theory is a branch of mathematics that studies the algebraic structures known as groups. The concept of a group is central to abstract algebra: other well-known algebraic structures, such as rings, fields, and vector spaces, can all be seen as groups endowed with additional operations and axioms. Groups recur throughout mathematics, and the methods of group theory have influenced many ...

Group theory - Wikipedia

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