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Algebra (from Arabic "al-jabr", literally meaning "reunion of broken parts") is one of the broad parts of mathematics, together with number theory, geometry and analysis. In its most general form, algebra is the study of mathematical symbols and the rules for manipulating these symbols; it is a unifying thread of almost all of mathematics. It includes everything from elementary equation solving ...

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Chapter 1 Introduction 1.1 Rationale Information about geometric algebra is widely available in the field of physics. Knowledge applicable to computer science, graphics in particular, is lacking.

Jaap Suter March 12, 2003

CONTENTS 2 Notations and conventions Our convention is that rings have identity elements,¹ and homomorphisms of rings respect the identity elements. A unit of a ring is an element admitting an inverse.

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