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**00AP Basic commutative algebra will be explained in this document. A reference is [Mat70].**

**2. Conventions 00AQ A ring is commutative with 1. The zero ring is a ring. In fact it is the only ring that does not have a prime ideal.**



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**The Kronecker symbol  $\delta_{ij}$  will be used. If  $R \rightarrow S$  is a ring map and  $\mathfrak{q}$  a prime of  $S$ , then we use the notation “ $\mathfrak{p} = R \cap \mathfrak{q}$ ” to indicate**

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is essentially the study of the rings  
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**algebraic number theory, the rings of algebraic integers are Dedekind rings, which constitute therefore an important class of commutative rings. Considerations related to modular arithmetic have led to the notion of a**

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**valuation ring.**

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**for many years, dealing with more general constructs from commutative algebra is a more recent problem.**

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## 1.3 Review of Commutative

### Algebra I 1.3.1 Basic Definitions

Definition 1.1. A ring is a tuple

$(R; +; 0; 1)$  where  $R$  is a set,  $0; 1$

$2R$  and  $+$  :  $R \times R \rightarrow R$  such that:

$(R; +; 0)$  is an abelian group  $(R; \cdot; 1)$

is a unital monoid  $(; +)$  are

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**distributive Remark. In this module, all rings will be commutative containing 1, i.e.,  $ab = ba$   $\forall a, b \in R$ . Example.  $\mathbb{Z}; \mathbb{C}; \mathbb{Q}; \mathbb{Z} = n\mathbb{Z}; k[T_1; \dots; T_n]$**

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**nonzero element has a  
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**pattern  $a + b = b + a$  reduces the number of "addition facts" from 100 to 55. One or two more:**

**Adding 1 or 2 is a basic task, and it can be accomplished through counting on or, ultimately, intuition. Zero: Since zero is the**



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**additive identity, adding zero is trivial.**

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**The main prerequisites are familiarity with groups, rings and fields.**

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**noncommutative ring to refer to rings which are not necessarily commutative, and hence include commutative rings in their definition. ...**

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