

## Commutative Algebra Mathematics Lecture Note Series

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A commutative ring with 1 is called a *eld* if  $1 \neq 0$  and for all  $0 \neq x \in A$  there exists an element  $x^{-1} \in A$  such that  $xx^{-1} = x^{-1}x = 1$ . In other words, every non-zero element of  $A$  is a unit. Clearly, every *eld* is an integral domain, but not conversely (e.g.  $\mathbb{Z}$ ). Note that if  $x$  is a unit, then  $(x) = A = (1)$ . Also note that if  $x$  is nilpotent, then  $1 - x$  is a unit.

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~~COMPUTATIONAL COMMUTATIVE ALGEBRA NOTES 3 these problems is provided by Gr obner bases, however you'll have to wait until Section 8 to see how. Basic De nitions. De nition 3.1. A *eld* is a set  $k$  endowed with two binary operations:  $(k, +, \cdot)$  where  $(a, b) \mapsto a + b$  called multiplication and addition respectively. The triple  $(k, +, \cdot)$  satisfies:~~

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Commutative Algebra is the study of commutative rings, and their modules and ideals. This theory has developed over the last 150 years not just as an area of algebra considered for its own sake, but as a tool in the study of two enormously important branches of mathematics: algebraic geometry and algebraic number theory.

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The map  $\text{Spec}(B) \rightarrow \text{Spec}(A)$  corresponds to the projection to the  $(x, y)$ -plane of the surface  $F: xz = y^2$  in the  $(x, y, z)$ -space. Note  $F$  contains the whole  $z$ -axis and hence does not look flat over the  $(x, y)$ -plane. EXAMPLE 3. Let  $A = k[x, y]$  be as above and  $B = k[x, y, z]^2$  with  $z = f(x, y) \in A$ .

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Commutative algebra is the branch of algebra that studies commutative rings, their ideals, and modules over such rings. Both algebraic geometry and algebraic number theory build on commutative algebra. Prominent examples of commutative rings include polynomial rings; rings of algebraic integers, including the ordinary integers  $\mathbb{Z}$ ; and  $p$ -adic integers. Commutative algebra is the main technical tool in the local study of schemes. The study of rings that are not necessar

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Definition 2.2. Suppose we have a commutative subring  $A \subseteq R$  (with identity). An element  $r \in R$  is called integral over  $A$  if  $r^n + a_{n-1}r^{n-1} + \dots + a_0 = 0$  for some monic polynomial  $f(x) \in A[x]$  which annihilates  $r$ . Proposition 2.3 Given  $A \subseteq R$  a commutative subring, the set of integral elements is a subring. Lemma 2.4 Let  $A$  be a ring, and  $M$  a finitely-generated  $A$ -module. Let  $\phi : M \rightarrow M$  be an  $A$ -linear map.

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Further, every ring is commutative (that is,  $xy = yx$  in it), with an occasional exception, which is always marked (normally, it's a ring of matrices). As usual, the additive identity is denoted by  $0$ . Note that, for any  $x \in R$ ,  $x \cdot 0 = 0$ ; indeed,  $x \cdot 0 = x(0+0) = x \cdot 0 + x \cdot 0$ , and  $x \cdot 0$  can be canceled by adding  $-(x \cdot 0)$ . We allow  $1 = 0$ .

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