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**Andreas Gathmann - Class Notes: Commutative Algebra**  
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A commutative ring with 1 is called a eld if 1 6= 0 and for all 0 6=x2Athere exists an element x 1 2Asuch that xx 1 = x 1x= 1. In other words, every non-zero element of Ais a unit. Clearly, every eld is an integral domain, but not conversely (e.g. Z). Note that if xis a unit, then (x) = A= (1). Also note that if xis nilpotent, then 1 xis a unit.

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COMPUTATIONAL COMMUTATIVE ALGEBRA NOTES 3 these problems is provided by Gr öbner 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 endowed with two binary operations: k k\k + : k k\k (a,b) ?lab (a,b) ?!a+ b called multiplication and addition respectively. The triple (k;+ ) satis es:

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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 Spec (B) + Spec (A) corresponds to the projection to the (x, y)-plane of the surface F: xz = y 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) 6 A.

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**Commutative algebra (Mathematics lecture note series)**  
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

**Commutative algebra - Wikipedia**  
De nition 2.2. Suppose we have a commutative subring A R(with identity). An element 2Ris called integral over Aif 9f(x) 2A[x] monic which annihilates . Proposition 2.3 Given A Ra commutative subring, the set of integral elements is a subring. Lemma 2.4 Let Abe a ring, and M a nitely-generated A-module. Let : M !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 0 = 0; indeed, x 0 = x(0+0) = x 0+x 0, and x 0 can be canceled by adding -(x 0). We allow 1 = 0.

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