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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 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 kendowed with two binary operations:: k k!k + : k k!k (a;b) 7!ab (a;b) 7!a+ b called multiplication and addition respectively. The triple (k;;+) satis es:

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The map Spec (B) + Spec (A) corresponds to the projection to (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 fflatf 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 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 Z {\displaystyle \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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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 = yxin 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 xin 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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