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A commutative ring
with 1 is called a field if 1
 $\neq 0$ and for all 0

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$\exists x \in A$ there exists an element $x \in A$ 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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these problems is
provided by Gr obner
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have to wait until
Section 8 to see how.
Basic De nitions. De
nition 3.1. A eld is a set

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endowed with two
 binary operations: $+$ and \cdot
 $+$: $k \times k \rightarrow k$ $(a,b) \mapsto a+b$
 \cdot : $k \times k \rightarrow k$ $(a,b) \mapsto a \cdot b$
 called
 multiplication and
 addition respectively.

The triple $(k; \cdot, +)$ satisfies:

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the study of

commutative rings, and

their modules and

ideals. This theory has

developed over the last

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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 $F: z^2 = f(x, y)$ 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 $z^2 = f(x, y) \in A$.

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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

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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} $\{\displaystyle \mathbb{Z}\}$; and p -adic integers. Commutative algebra is the main technical tool in the

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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 $\exists f(x) \in A[x]$ monic
which annihilates r .

Proposition 2.3 Given A

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subring, the set of
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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

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(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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