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ring with 1 is

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called a field if $1 \neq 0$ and for all $0 \neq a \in A$ there exists an element $x \in A$ such that $ax = 1 = xa$. In other words, every non-zero element of A is a unit. Clearly, every field is an integral domain, but not

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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 bases,
however you'll
have to wait

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Algebra Section 8
to see how.

Basic De
initions. De

inition 3.1. A

eld is a set
k endowed with
two binary
operations:

$+$ and \cdot on k
 $(a; b) \rightarrow a + b$ and $(a; b) \rightarrow a \cdot b$

$+$ and \cdot called
multiplication
and addition

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respectively.

The triple
($k; ; +$) satisfies:

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Algebra is the

study of

commutative

rings, and their

modules and

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Algebra. 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

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mathematics:
algebraic
geometry and
algebraic number
theory.

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The map $\text{Spec } (B)$

+ $\text{Spec } (A)$

corresponds to

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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 flat
over the $(x,$
 $y)$ -plane.

EXAMPLE 3. Let A
 $= k[x, y]$ be as
above and $B = k$

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[x, y, z] 2 with
 $z = f(x, y)$ 6
A.

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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

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Algebra build on
commutative
algebra.

Prominent

examples of
commutative
rings include
polynomial
rings; rings of
algebraic
integers,
including the
ordinary
integers \mathbb{Z}

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$\{\displaystyle$
 $\mathbb{Z}\}$ };
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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Definition 2.2.

Suppose we have
a commutative
subring $A \subseteq R$ (with
identity). An
element $\alpha \in R$ is
called integral
over A if $\exists f(x) \in A[x]$ monic
which
annihilates α .

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Proposition 2.3

Given A 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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~~Expositions~~

~~Department of
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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

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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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