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

there exists an element $x \in R$ such that $ax = xa = 1$. In other words, every non-zero element of R is

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every eld is an
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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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however you'll have to wait until Section 8 to see how. Basic Definitions. Definition 3.1. A field is a set endowed with two binary operations: $+$ and \cdot (a;b) $\neq ab$ (a;b) $\neq a+ b$ called multiplication and addition respectively. The

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

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study of
commutative rings,
and their modules
and ideals. This
theory has

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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

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look flatf over the
(x, y)-plane.

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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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algebra is the
branch of algebra
that studies
commutative rings,
their ideals, and
modules over such
rings. Both
algebraic geometry
and algebraic
number theory

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examples of
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commutative rings
include polynomial
rings; rings of
algebraic integers,
including the
ordinary integers \mathbb{Z}
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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 $A \subset R$ (with

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identity). An element $\alpha \in R$ is called integral over A if $\exists f(x) \in A[x]$ monic which annihilates α .

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 -

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module. Let $\phi : M \rightarrow M$
be an A -linear map.

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algebra will provide

the machinery we

require before any

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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 ,

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$x \cdot 0 = 0$; 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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