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A commutative ring with 1 is called a field if  $1 \neq 0$  and for all  $0 \neq x \in A$  there exists an element  $x^{-1}$  such that  $xx^{-1} = x^{-1}x = 1$ . In other words, every non-zero element of  $A$  is a unit. Clearly,

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every  $R$  is an integral domain, but not conversely (e.g.  $\mathbb{Z}$ ). Note that if  $x$  is a unit, then  $(x) = R = (1)$ . Also note that if  $x$  is nilpotent, then  $1 - x$  is a unit.

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have to wait  
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to see how.

Basic De

initions. De

inition 3.1. A

field is a set

endowed with

two binary

operations:  $k$

$k \neq k + : k k \neq k$

$(a; b) \neq ab (a; b)$

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$\mathbb{Z}$ !  $a + b$  called  
multiplication  
and addition  
respectively.

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

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study of

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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  
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enormously  
important  
branches of  
mathematics:  
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geometry and  
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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  $F: xz = y$  in the  $(x, y, z)$ -space. Note  $F$  contains the whole  $z$ -axis and hence does not look flat over the  $(x, y)$ -plane.

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EXAMPLE 3. Let  $A = k[x, y]$  be as above and  $B = k[x, y, z]$  with  $z = f(x, y) \in A$ .

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including the  
ordinary  
integers  $\mathbb{Z}$   
{\displaystyle  
\mathbb {Z} };  
and  $p$ -adic  
integers.

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algebra is the  
main technical  
tool in the  
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study of rings



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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  $\exists f(x)$

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$2A[x]$  monic

which  
annihilates .

Proposition 2.3

Given  $A$  a Ra

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 :

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$M \rightarrow M$  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



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$1 = 0$ .

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