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$P_2$  We can  
compute  $= d - 1 - 2g$   
as the di  
ference of the  
expected genus  
of a smooth

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degree  $d$  plane  
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curve and the  
actual genus.

The fibers of the  
right map have  
dimension  $d(d+3)/2 - 3$ : To see  
this note that  
the space of all  
degree  $d$  plane  
curves has  
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 $d(d+3)/2 - 3$  and  
each of the

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nodes imposes 3  
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In Euclidean geometry. An algebraic curve in the Euclidean plane is the set of the points whose coordinates are the solutions of a bivariate polynomial equation  $p(x, y) = 0$ . This equation is

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often called the  
implicit  
equation of the  
curve, in  
contrast to the  
curves that are  
the graph of a  
function  
defining  
explicitly  $y$  as  
a function of  $x$ .

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Lecture 1

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notes x3 Basics

Today, we shall  
set the notation  
and conventions.

Algebraic curves  
is one of the  
oldest subjects

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the first things  
people did once  
they learned  
about  
polynomials. It  
has developed  
over time a  
multiplicity of  
language and  
symbols, and we  
will run through

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The intersection  
number of two  
plane curves at  
a point is  
characterized by  
its properties,  
and a definition  
in terms of a



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certain residue  
class ring of a  
local ring is  
shown to have  
these  
properties.  
Bézout's Theorem  
and Max  
Noether's  
Fundamen- tal  
Theorem are the  
subject of  
Chapter 5.

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In topology, a curve is defined by a function from an interval of the real numbers to another space. In differential geometry, the same definition

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is used, but the  
defining  
function is  
required to be  
differentiable  
Algebraic  
geometry studies  
algebraic  
curves, which  
are defined as  
algebraic  
varieties of  
dimension one.

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introduction of  
new algebraic  
concepts is  
always motivated  
by a discussion  
of the  
corresponding  
geometric ideas.  
The main point  
of the book is  
to illustrate  
the interplay  
between abstract



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algebraic  
geometry is  
concerned not  
just with curves

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but with the  
more general  
concept of  
varieties,  
solution sets to  
a collection of  
polynomials.  
Varieties  
(affine and  
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the subject of  
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