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Official Summary.

"Our purpose in this  
chapter is to give an

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introduction to  
algebraic geometry  
with as little  
machinery as  
possible. We work  
over a fixed  
algebraically closed  
field  $k$ . We define  
the main objects of  
study, which are  
algebraic varieties in  
affine or projective  
space. We introduce  
some of the most

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important concepts,  
such as dimension,  
regular functions,  
rational maps,  
nonsingular varieties,  
and the degree of a  
projective variety.

## **Chapter 1: Varieties - Algebraic Geometry**

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Algebraic Geometry.

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Solutions, June 7,  
2015. Chapter 1,  
Exercise 1.2: The  
Twisted Cubic Curve.

Let

$Y \subseteq \mathbb{A}^3$  be the set

$Y = \{(t, t^2, t^3) : t \in$

$k\}$ . Show that  $Y$  is

an affine variety of

dimension 1. Find

generators for the

ideal  $I(Y)$ .

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Thursday, June 11,  
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Exercise 2.8:

Hypersurfaces and  
dimension  $A$   
projective variety has  
dimension  $n$  if and only

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if it is the zero set of a single irreducible homogeneous polynomial of positive degree. is called a hypersurface in.

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from exercise 1.1 as 2  
a ne varieties are  
isomorphic if and only  
if their coordinate  
rings are. 3.1b The

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coordinate ring of any proper subset of  $A^1$  has invertible elements not in  $k$  and  $k[x]$  is not isomorphic to the coordinate ring of  $A^1$ . 3.1c The automorphism group of  $P^2$  acts transitively on sets of 3 points not on a line, so we can assume the conic contains  $(0 : 0 : 1)$ ,  $(0 : 1 : 0)$ , and  $(1 : 0 : 0)$ , i.e., it is of

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## Chapter 1 **Hartshorne, Chapter 1**

This is not really a blog, but a place to post my attempts at solutions to Hartshorne's Algebraic Geometry that hopefully will encourage discussion, comments,

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Solutions, and  
Chapter 1  
corrections. I was  
attempting to do  
completely all of the  
second Chapter, and  
may still reach this  
goal.

## **Solutions to Hartshorne**

Solutions of exercises  
in Algebraic Geometry  
. Contribute to myzha  
ng24/hartshorne-

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Solution development  
by creating an  
account on GitHub.

## **GitHub - myzhang24 /hartshorne- solution: Solutions of ...**

Solutions to  
Hartshorne. Below  
are many of my  
typeset solutions to  
the exercises in  
chapters 2,3 and 4 of

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Hartshorne's

"Algebraic Geometry."

I spent the summer of 2004 working through these problems as a means to study for my Prelim. In preparing these notes, I found the following sources helpful: William Stein's notes and solutions

**Bryden Cais's scans**

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## and notes - University of Arizona

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Chapter 2 Chapter 2  
2.1 1.1 Show that  $A$   
has the right universal  
property. Let  $G$  be  
any sheaf and let  $F$  be  
the presheaf  $U \rightarrow A$ ,  
and suppose  $\eta: F \rightarrow G$ .  
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2.5. (a)  $\mathbf{P}^n$  is

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a noetherian

topological space. (b)

Every algebraic set in

$\mathbb{A}^n$  can be

written uniquely as a

finite union of

irreducible algebraic

sets, no one

containing another.

These are called its

irreducible

components.

**Chapter 1, Section**

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## **2: Projective Varieties - Algebraic**

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...

Chapter 1 .

Hartshorne starts his book with an overview of basic classical algebraic geometry. In the beginning mathematicians studied solutions of polynomials as subsets of  $\mathbb{A}^n$ , or projective spaces

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constructed from these sets. This viewpoint is made rigorous through the classical theory of varieties, which is the one taken by many algebraists and geometers before Grothendieck.

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exercises. REB 1994  
7.1a The polynomials  
of degree  $m$  in  $N+1$   
variables restricted to  
the image of  $P_n$  in  $P_N$   
give the polynomials  
of degree  $md$  in  $n + 1$   
variables. Hence the  
Hilbert polynomial of  
the embedding of  $P_n$

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in  $P_n$  is  $f(k)$  where  
 $f(k) = k+n$   $n$  is the  
Hilbert polynomial of  
 $P_n$  (embedded in  
itself). So the Hilbert  
polynomial of

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1.7  $N \subset P_n$  in  $P$  give  
the polynomials  $P_n$**

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property. Let  $G$  be  
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