

Elementary Geometry Of Algebraic Curves An Undergraduate Introduction

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The book contains several hundred worked examples and exercises, making it suitable for adoption as a course text. From the lines and conics of elementary geometry the reader proceeds to general curves in the real affine plane, with excursions to more general fields to illustrate applications, such as number theory.

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Some local structure of plane curves Sphere coverings The dimension theorem for plane curves A Jacobian criterion for nonsingularity Curves in P2(C) are connected Algebraic curves are orientable 10 The genus formula for nonsingular curves Chapter III Commutative ring theory and algebraic geometry 2 3 4 Introduction

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In analytic geometry, an asymptote (/ æ s m p t o t /) of a curve is a line such that the distance between the curve and the line approaches zero as one or both of the x or y coordinates tends to infinity.In projective geometry and related contexts, an asymptote of a curve is a line which is tangent to the curve at a point at infinity.. The word asymptote is derived from the Greek ...

[Asymptote - Wikipedia](#)

Subsequent chapters explore commutative ring theory and algebraic geometry as well as varieties of arbitrary dimension and some elementary mathematics on curves. Upon finishing the text, students will have a foundation for advancing in several different directions, including toward a further study of complex algebraic or analytic varieties or ...

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Some of the geometry of a few specific algebraic curves is worked out, using a tactical approach that might naturally be tried by one not familiar with the general methods intro duced later in the book. Further examples in this chapter suggest other basic properties of curves. In Chapter II, we look at curves more rigorously and carefully.

[Elementary Algebraic Geometry | K. Kendig | Springer](#)

Subsequent chapters explore commutative ring theory and algebraic geometry as well as varieties of arbitrary dimension and some elementary mathematics on curves. Upon finishing the text, students will have a foundation for advancing in several different directions, including toward a further study of complex algebraic or analytic varieties or ...

[Elementary Algebraic Geometry on Apple Books](#)

This text is intended for a brief introductory course in plane geometry. It covers the topics from elementary geometry that are most likely to be required for more advanced mathematics courses. The only prerequisite is a semester of algebra. The emphasis is on applying basic geometric principles to the numerical solution of problems. For this purpose the number of theorems and definitions is ...

["Elementary College Geometry" by Henry Africk](#)

In mathematics, an affine algebraic plane curve is the zero set of a polynomial in two variables. A projective algebraic plane curve is the zero set in a projective plane of a homogeneous polynomial in three variables. An affine algebraic plane curve can be completed in a projective algebraic plane curve by homogenizing its defining polynomial. Conversely, a projective algebraic plane curve of homogeneous equation $h = 0$ can be restricted to the affine algebraic plane curve of equation $h = 0$. The

[Algebraic curve - Wikipedia](#)

Algebraic Geometry: A good all-around (and inexpensive) book is Hulek's Elementary Algebraic Geometry. It contains pretty much all the algebraic geometry you'll need for this course. Other excellent reads include Smith, Kahanpaa, Kekalainen, Traves's An Invitation to Algebraic Geometry and Harris's Algebraic Geometry: A First Course.

[Math 788: Elliptic Curves and Arithmetic Geometry, Spring 2020](#)

An introductory chapter that focuses on examples of curves is followed by a more rigorous and careful look at plane curves. Subsequent chapters explore commutative ring theory and algebraic geometry as well as varieties of arbitrary dimension and some elementary mathematics on curves.