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the very first systematic and coherent introduction to the advanced theory of arithmetic curves and surfaces at all.

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Algebraic geometry is a branch of mathematics, classically studying zeros of multivariate polynomials. Modern algebraic geometry is based on the use of abstract algebraic techniques, mainly from commutative algebra, for solving geometrical problems about these sets of zeros. The fundamental objects of study in algebraic geometry are algebraic varieties, which are geometric manifestations of ...

~~Algebraic geometry - Wikipedia~~

Algebraic varieties are the central objects of study in

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algebraic geometry, a sub-field of mathematics. Classically, an algebraic variety is defined as the set of solutions of a system of polynomial equations over the real or complex numbers. Modern definitions generalize this concept in several different ways, while attempting to preserve the geometric intuition behind the original definition.

~~Algebraic variety - Wikipedia~~

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In mathematics, arithmetic geometry is roughly the application of techniques from algebraic geometry to

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problems in number theory. Arithmetic geometry is centered around Diophantine geometry, the study of rational points of algebraic varieties. In more abstract terms, arithmetic geometry can be defined as the study of schemes of finite type over the spectrum of the ring of integers.

## ~~Arithmetic geometry~~—Wikipedia

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Let  $(E, 0)$  be an elliptic curve, using Riemann-Roch we construct an isomorphism into  $\text{Proj}[X, Y, Z] / Y^2Z + a_1XYZ + a_3YZ^2 - X^3 - a_2X^2Z - a_4XZ^2 - a_6Z^3$  that can be written informally as  $P = [x(P): y(P): 1(P)]$ , where  $x$  and  $y$  are rational functions such that  $v_0(x) = -2$  and  $v_0(y) = -3$ .

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Review from previous edition Will be useful to graduate students as an introduction to arithmetic algebraic geometry, and to more advanced readers and experts in the field. EMS show more

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