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Arithmetic geometry  
(= numbertheory +  
algebraic geometry) is  
notorious for being an  
intricate subject with a  
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spectrum of the ring of  
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In mathematics, a  
scheme is a  
mathematical structure  
that enlarges the  
notion of algebraic  
variety in several ways,  
such as taking account



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of multiplicities (the equations  $x = 0$  and  $x^2 = 0$  define the same algebraic variety and different schemes) and allowing "varieties" defined over any commutative ring (for example, Fermat curves are defined over the integers).

## **Scheme (mathematics) - Wikipedia**

An algebraic curve  $C$  is the graph of an

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equation  $f(x, y) = 0$ , with points at infinity added, where  $f(x, y)$  is a polynomial, in two complex variables, that cannot be factored. Curves are classified by a nonnegative integer—known as their genus,  $g$ —that can be calculated from their polynomial.

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Qing Liu, Algebraic  
geometry and  
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pp. Oxford Univ. Press  
2002; D. Eisenbud, J.  
Harris, The geometry  
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Grad. Texts in Math.  
David Mumford, Red  
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unfinished sequel  
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