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can be described as a plane algebraic curve given by an equation of the form  $y^2 = x^3 + ax + b$ . The curve is required to be non-singular, which means that the curve has no cusps or self-intersections.

## Elliptic curve - Wikipedia

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## Elliptic Curves and Arithmetic Invariants - springer

In mathematics, Felix Klein's  $j$ -invariant or  $j$  function, regarded as a function of a complex variable  $\tau$ , is a modular function of weight zero for  $SL(2, \mathbb{Z})$  defined on the upper half-plane of complex numbers. It is the unique such function which is holomorphic away from a simple pole at the cusp such that  $(j) = \mathbb{C} \cup \{\infty\}$ . Rational functions of  $j$  are modular, and in fact give all modular functions.

## j-invariant - Wikipedia

Elliptic Curves and Arithmetic Invariants. Elliptic Curves and Arithmetic Invariants pp 43-82 | Cite as. Elliptic Curves and Modular Forms. Authors; Authors and affiliations; Haruzo Hida; Chapter. First Online: 14 April 2013. 2.6k Downloads; Part of the Springer Monographs in Mathematics book series (SMM) Abstract. We now describe basics of ...

## Elliptic Curves and Modular Forms | SpringerLink

An elliptic curve  $E$  is a curve of the form  $y^2 = x^3 + ax + b$ : With substitutions preserving rational points, these can be put in the Weierstrass form  $y^2 = x^3 + ax + b$ .  $E$  must also be nonsingular. Here, this means there are no self-intersections or cusps.

## The j-invariant of an Elliptic Curve

Given an elliptic curve in "standard" form:  $y^2 + a_1xy + a_3y = x^3 + a_2x^2 + a_4x + a_6$  there are some common convenience variables:  $b_2 = a_1^2 + 4a_2$ ,  $b_4 = a_1a_3 + 2a_4$ ,  $b_6 = a_3^2 + 4a_6$ ,  $b_8 = a_2a_6 - a_1a_3a_4 + 4a_2a_6 + a_2a_3^2 - a_4^2$ , and there are the invariants,  $c_4 = b_2^2 - 24b_4$ ,  $c_6 = -b_3^2 + 36b_2b_4 - 216b_6$ ,  $\Delta = -b_2^2b_8 - 8b_3^4 - 27b_2^6 + 9b_2b_4b_6$ .

## elliptic curve transformations and invariants

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is well known and you can calculate its  $j$ -invariant to be  $j = 1728$ , the only edge case is  $j = 1728$  where the above formula breaks down, nevertheless, an elliptic curve of  $j$ -invariant 1728 are given by  $y^2 = x^3 - px$  for  $p \neq 2$ . In particular I assume that in the diagram it is not implied that those are all cordilliera, just some examples of some.

## $j$ -invariants for elliptic curves over $\mathbb{F}_p$ ...

N. Koblitz, "Introduction to Elliptic Curves and Modular Forms". J. Tate, "The arithmetic of elliptic curves", Invent. Math. 23 (1974), 179-206 - The main reference was heavily influenced by this key survey article. D. Husemoller, "Elliptic Curves", Second Edition, Springer.

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