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In mathematics, Felix Klein's  $j$ -invariant or  $j$  function, regarded as a



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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  $(j) = , = =$ . Rational functions of  $j$  are modular, and in fact give all modular functions.

**j-invariant -**

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An elliptic curve  $E$  is a curve of the form  $y^2 = x^3 + ax^2 + bx + c$ : 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

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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:  $b_2 = a_1^2 + 4a_2$ ,  $b_4 = a_1a_3 + 2a_4$ ,  $b_6 = a_2^3 + 4a_6$ ,  $b_8 = a_1^2a_6 - a_1a_3a_4 + 4a_2a_6 + a_2a_3^2 - a_4^2$ , and there are the

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invariants,  $c_4 = b^2 - 24b_4$ ,  $c_6 = -b^3 + 36b_2b_4 - 216b_6$ ,  $\Delta = -b^2b_8 - 8b_3^4 - 27b_2^6 + 9b_2b_4b_6$ .

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is well known and you can calculate its  $j$ -invariant to be  $j = 0$ , the only edge case is  $j = 0 = 1728$  where the above formula breaks down, nevertheless, an elliptic curve of  $j$ -invariant  $1728$  are given by  $y^2 = x^3 - x$  for  $p \neq 2$ . In particular I assume that in the diagram it is not implied that those are all cordillera, just some examples of some

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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. Husemöller, "Elliptic Curves",

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