

Transcendental numbers



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(Louie Will)

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Reference Series Books LLC Jan 2012, 2012. Taschenbuch. Book Condition: Neu. 244x187x33 mm. This item is printed on demand - Print on Demand Neuware - Source: Wikipedia. Pages: 23. Chapters: E, Transcendental number, Chaitin's constant, Liouville number, Lindemann Weierstrass theorem, Baker's theorem, Schanuel's conjecture, Schneider Lang theorem, List of representations of e, Gelfond Schneider theorem, Four exponentials conjecture, Gelfond Schneider constant, Gelfond's constant, Universal parabolic constant, Cahen's constant, Six exponentials theorem, Gauss's constant, Prouhet Thue Morse constant, Hilbert number, Hypertranscendental number. Excerpt: The mathematical constant is the unique real number such that the value of the derivative (slope of the tangent line) of the function $f(x) = e^x$ at the point $x = 0$ is equal to 1. The function so defined is called the exponential function, and its inverse is the natural logarithm, or logarithm to base e . The number e is also commonly defined as the base of the natural logarithm (using an integral to define the latter), as the limit of a certain sequence, or as the sum of a certain series (see the alternative characterizations, below). The number is sometimes called Euler's number after the Swiss mathematician Leonhard Euler. (e is not to be confused with the Euler Mascheroni constant, sometimes called simply Euler's constant.) It is also sometimes known as Napier's constant, although the symbol e is in honor of Euler. The number is of eminent importance in mathematics, alongside 0, 1, and i . All five of these numbers play important and recurring roles across mathematics, and are the five constants appearing in one formulation of Euler's identity. The number is irrational; it is not a ratio of integers. Furthermore, it is transcendental; it is not a root of any non-zero polynomial with rational coefficients. The numerical value of truncated to 50 decimal places is (sequence A001113 in OEIS)....

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