



Transcendental numbers

By -

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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 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. (It is not to be confused with the Euler Mascheroni...



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