

Interesting Facts about e

1. Mathematician Leonard Euler first used e in 1736 to mean *that number whose hyperbolic logarithm is equal to 1*.
2. e is also known as Euler's number.
3. In 1737, Euler first used the symbol for π to be the ratio of the circumference to the diameter in a circle.
4. In 1777, Euler first used i to be equal to the square root of -1.
5. Euler was the first to write five most significant numbers in all of mathematics in one equation

$$e^{(\pi^i)} + 1 = 0$$

6. e is defined as the limit as n approaches infinity of $(1 + 1/n)^n$.
7. $e = 2.718281828459045 \dots$
8. e can also be defined as the limit as n approaches zero of $(1 + n)^{1/n}$.
9. e is the base of the exponential function $y = a^x$ such that the slope of the tangent to the curve at the point (0,1) is 1.

10.

$$e = 1 + \frac{1}{1!} + \frac{1}{2!} + \frac{1}{3!} + \frac{1}{4!} + \frac{1}{5!} + \dots$$