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A mathematical constant is a number that is "significantly interesting in some way". Constants arise in many areas of mathematics, with constants such as e and π occurring in such diverse contexts as geometry, number theory, and calculus. The number π (π / p a? /) is a mathematical constant. Originally defined as the ratio of a circle's circumference to its diameter, it now has various equivalent definitions and appears in many formulas in all areas of mathematics and physics. An extensive and well maintained list of constants of physics, both fundamental and others based on latest CODATA values and other serious sources; great constant-at-a-glance educational resource. The constant is base of the natural logarithm. is sometimes known as Napier's constant, although its symbol honors Euler. is the unique number with the property that the area of the region bounded by the hyperbola, the x-axis, and the vertical lines and is 1.