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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 It is not known if e , π , or γ are irrational. However, it is known that they cannot satisfy any polynomial equation of degree with integer coefficients of average size (Bailey 1988ab, Borwein et al. 1989).