

ADVANCED IRRATIONAL NUMBERS

Reference chart for High School Mathematics & Physics

CONSTANT	SYMBOL	APPROXIMATE VALUE	CLASSIFICATION
Archimedes' Constant	π	3.14159265...	Transcendental
Euler's Number	e	2.71828182...	Transcendental
Golden Ratio	ϕ	1.61803398...	Algebraic
Pythagoras' Constant	$\sqrt{2}$	1.41421356...	Algebraic
Theodorus' Constant	$\sqrt{3}$	1.73205081...	Algebraic
Euler-Mascheroni Constant	γ	0.57721566...	Unknown/Likely Irrational
Omega Constant	Ω	0.56714329...	Transcendental
Apery's Constant	$\zeta(3)$	1.20205690...	Irrational

Note: Irrational numbers cannot be expressed as a simple fraction and have non-repeating, infinite decimals.