

COMMON IRRATIONAL NUMBERS

Reference Chart for Algebra Students

Irrational Number: A real number that cannot be expressed as a simple fraction (ratio). Its decimal form never ends and never repeats.

Symbol	Name / Expression	Approximate Value	Category
π	Pi	3.14159...	Transcendental
e	Euler's Number	2.71828...	Transcendental
ϕ	Golden Ratio	1.61803...	Algebraic
$\sqrt{2}$	Square Root of 2	1.41421...	Surd
$\sqrt{3}$	Square Root of 3	1.73205...	Surd
$\sqrt{5}$	Square Root of 5	2.23606...	Surd
$\sqrt{10}$	Square Root of 10	3.16227...	Surd

Pro-Tip: If the square root of a positive integer is not a whole number, it is always irrational.