





## **Table of Greek letters**



The use of Greek letters makes it possible to standardise the language of analysis. The use of Greek letters is a tribute to humanity's march towards knowledge. The letters we use today have been standardised so that scientific ideas can be translated into any language. Greek letters also make it possible to save on notation by simplifying it.

$-\sqrt{0}$	Lowercase	Uppercase	Meaning	Pronunciation	Common Usage
1	$\alpha$	A	Alpha	a	Coefficients, angles
2	eta	В	Beta	b	Coefficients, angles, $\beta$ -particles
					in physics
3	$\gamma$	$\Gamma$	Gamma	g	Relativity, gamma functions,
					$\gamma$ -rays in physics
4	$\delta$	$\Delta$	Delta	d	Differences, variations, $\partial$
					(partial derivative)
5	$\epsilon$	${f E}$	Epsilon	e	Small quantities, permittivity, $\varepsilon$
					(variant epsilon)
6	ζ	$\mathbf{Z}$	Zeta	z	Zeta functions, complex
					numbers
7	$\eta$	${ m H}$	Eta	e	Efficiency, viscosity
8	$\theta$	$\Theta$	Theta	th	Angles, unknown variables
9	$\iota$	I	Iota	i	Small quantity
10	$\kappa$	K	Kappa	k	Torsion constant
11	$\lambda$	$\Lambda$	Lambda	l	Wavelength, Lagrange multiplier
12	$\mu$	$\mathbf{M}$	Mu	m	Friction coefficient, permeability
13	u	N	Nu	n	Frequency, Reynolds number
14	ξ	Ξ	Xi	ks	Random variables, logic
15	O	O	Omicron	0	Rarely used
16	$\pi$	П	Pi	p	Circumference/diameter ratio,
					products, $\varpi$ (variant pi)
17	ho	Р	Rho	r	Density, polar coordinates
18	$\sigma$	$\Sigma$	Sigma	s	Sum, standard deviation, $\varsigma$
					(final sigma)
19	au	${f T}$	Tau	t	Time, time constant
20	v	Υ	Upsilon	u	Particle physics
21	$\phi$	$\Phi$	Phi	f	Wave function, electric
					potential, $\varphi$ (variant phi)
22	$\chi$	X	$\operatorname{Chi}$	kh	Statistics (chi-square test)
23	$\psi$	$\Psi$	Psi	ps	Wave function in quantum
					mechanics
24	$\omega$	$\Omega$	Omega	o	Angular frequency, electrical
					resistance

**Table:** Table of Greek letters with their meanings and common usage.

