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List of Symbols

\mathbb{N}	set of natural numbers
\mathbb{Z}	set of integers
\mathbb{R}	set of real numbers
\mathbb{R}^n	n -dimensional real Euclidean space
\mathbb{C}	set of complex numbers
i	$\sqrt{-1}$ imaginary unit
\bar{z}	conjugate of the complex number z
$\operatorname{Re} z$	real part of a complex number z
$\operatorname{Im} z$	imaginary part of a complex number z
$ z $	absolute value of the complex number z
$\arg z$	argument of the complex number z
A^c	complement of the set A
χ_A	characteristic function of the set A
\cap	intersection of sets
\cup	union of sets
\setminus	set difference
∂O	border of the region O
\bar{Q}	closure of the region Q
\liminf	limit inferior
\limsup	limit superior
$\operatorname{Log} z$	multivalued complex logarithm
$\log z$	principal value of the complex logarithm
$\operatorname{Res}(f(z))_{z=z_0}$	residue of a function f at z_0

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