

Greek characters

Name	Symbol	Typical use(s)
alpha	α	angle, constant
beta	β	angle, constant
gamma	γ	angle, constant
delta	δ	limit definition
epsilon	ϵ or ε	limit definition
theta	θ or ϑ	angle
pi	π or π	circular constant
phi	ϕ or φ	angle, constant

Named sets

empty set	\emptyset	integers	\mathbf{Z}
real numbers	\mathbf{R}	positive integers	$\mathbf{Z}_{>0}$
ordered pairs	\mathbf{R}^2	positive reals	$\mathbf{R}_{>0}$

Set symbols

Meaning	Symbol	Meaning	Symbol
is a member	\in	union	\cup
subset	\subset	complement	superscript ^C
intersection	\cap	set minus	\setminus

Logic symbols

Meaning	Symbol	Meaning	Symbol
negation	\neg	equivalent	\equiv
and	\wedge	iff	\iff
or	\vee	for all	\forall
implies	\implies	there exists	\exists

Function notation



$\text{dom}(F)$	domain of function F
$\text{range}(F)$	range of function F
C_A	set of continuous functions on set A
C_A^1	set of differentiable functions on set A
$A \rightarrow B$	set of functions from A to B

Triangle inequalities

For all $x, y \in \mathbf{C}$, we have

$$|x + y| \leq |x| + |y|$$

$$||x| - |y|| \leq |x - y|$$

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