

AN INCOMPLETE LIST OF USEFUL SYMBOLS AND NOTATION

SYMBOL	WHAT IT MEANS
\mathbb{N}	$\{1, 2, 3, \dots\}$, the natural numbers.
\mathbb{Z}	$\{0, \pm 1, \pm 2, \pm 3, \dots\}$, the integers.
\mathbb{Q}	The rational numbers.
\mathbb{R}	The real numbers.
\mathbb{C}	The complex numbers.
\forall	For all.
\exists	There exists.
$P \implies Q$	P implies Q .
$P \iff Q$	P if and only if Q .
$P \text{ iff } Q$	P if and only if Q .
$\in (\notin)$	Is (not) an element of.
$A \subseteq B$ ($A \subsetneq B$)	A is a (proper) subset of B .
s.t.	Such that.
TFAE	The following are equivalent.
WLOG	Without loss of generality.
\cup	Union.
\cap	Intersection.
!	Unique (or factorial, depending on the context).
\sim	Not.
\wedge	And.
\vee	Or.
\therefore	Therefore.