$\wedge$	The AND connective
$\vee$	The OR connective
	The NEGATION or NOT connective
$\sim$ , $\vdash$	Belongs to or is an element of
d d	Does not belong to or is not an element of
⊊ Ø	
$\mathbb{V}$	The empty or null set Set minus
∈ ¢ \ ∀	"For every" or "for all"
∨ ⊐	There exists
$\Rightarrow$	The CONDITIONAL or "If-then" statement
$\rightarrow$	The BICONDITIONAL or "If and only if" statement
$\stackrel{\smile}{A} \subseteq B, \ A \subset B$	A is a subset of $B$
$A \subseteq D, A \subset D$ $A^c$	The compliment of the set $A$
$A \cup B$	The union of $A$ and $B$
$A \cap B$	The intersection of $A$ and $B$
$A \times B$	The Cartesian product of $A$ and $B$
$A \Delta B$	The symmetric difference of $A$ and $B$
	The power set of $A$
$\frac{P(A)}{A}$	The closure of A
$A^{\circ}$	The interior of A
$\partial A$	The boundary of A
$A \sim B$	A and $B$ have the same cardinality
$\aleph_0$	The cardinality of $\mathbb{N}$ , read "Aleph null"
$\aleph_1$	The cardinality of $\mathbb{R}$ (2 <sup><math>\aleph_0</math></sup> ), read "Aleph one"
$\mathbf{C}$	The set of continuous functions
$\mathbf{C}^1$	The set of differentiable functions
$\mathbf{C}^2$	The set of twice differentiable functions
$\mathbf{C}^\infty$	The set of infinitely differentiable functions
C	The Cantor set
$F_{\sigma}$	A countable union of closed sets
$G_{\delta}$	A countable intersection of open sets
$\mathbb{C}$	The complex numbers
iff	Abbreviation for "if and only if"
f[A]	The image of the set $A$ under $f$
$f^{-1}[A]$	The inverse image of the set $A$ under $f$
$f \circ g$	The composition of $f$ and $g$
f A	The restriction of $f$ to $A$
I	The irrational numbers
$\mathbb{N}$	The natural numbers $\{1, 2, 3, \ldots\}$
Q	The rational numbers
$\mathbb{R}$	The real numbers: $(-\infty, \infty)$
$\mathbb{R}^+$	The positive real numbers: $(0, \infty)$
$\sup_{\cdot \in C}$	The supremum or least upper bound
inf	The infimum or greatest lower bound
U 77	The universal set $\begin{bmatrix} 1 & 1 & 0 & 1 & 2 \end{bmatrix}$
$\mathbb{Z}$	The integers $\{\ldots, -2, -1, 0, 1, 2, \ldots\}$