



Set Theory Symbols

Set theory was developed by mathematicians to be able to talk about collections of objects. It has turned out to be an invaluable tool for defining some of the most complicated mathematical structures.

Let us explore few common Set theory symbols used in more complicated math (<https://byjus.com/maths/>) structures.

Consider a Universal set $(U) = \{1, 2, 7, 9, 13, 15, 21, 23, 28, 30\}$

Symbol	Symbol Name
$\{\}$	set
$A \cup B$	union
$A \cap B$	intersection
$A \subseteq B$	subset
$A \not\subseteq B$	not subset
$A \subset B$	proper subset / strict subset
$A \supset B$	proper superset / strict superset
$A \supseteq B$	superset
\emptyset	empty set

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$A \not\supset B$	not superset
$A = B$	equality
$A \setminus B$ or $A - B$	relative complement
A^c	complement
$A \Delta B$	symmetric difference
$a \in B$	element of
(a, b)	ordered pair
$x \notin A$	not element of
$ B , \#B$	cardinality
$A \times B$	cartesian product
\mathbb{N}	natural numbers / whole numbers set (without zero)
\mathbb{N}_0	natural numbers / whole numbers set (with zero)
\mathbb{Q}	rational numbers set


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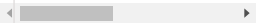
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	set
\mathbb{R}	real numbers set



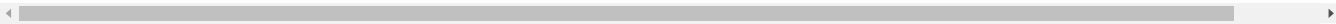
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