

KNOWLEDGE



Union of A and B

Let A and B be two sets. Then the union of A and B is denoted by $A \cup B$. It is the set of all elements which are either in A or in B or in both A and B.

Let A and B be two sets. Then the intersection of A and B is denoted by $A \cap B$. It is the set of all elements which are common to both A and B.

Symbol	Meaning	Example
$A \cup B$	Union of A and B	$\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
$A \cap B$	Intersection of A and B	$\{3, 4, 5, 6, 7, 8\}$
$A - B$	Elements in A but not in B	$\{1, 2\}$
$B - A$	Elements in B but not in A	$\{9, 10\}$

Disjoint sets