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disjunction

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Entry type	Definition
Classification	msc 03B05
Synonym	logical or
Synonym	disjunctive truth function
Related topic	Conjunction
Related topic	PropositionalLogic

A disjunction is true if either of its parameters (called disjuncts) are true. Disjunction does *not* correspond to “or” in English (see exclusive or.) Disjunction uses the symbol \vee or sometimes $+$ when taken in algebraic context. Hence, disjunction of a and b would be written

$$a \vee b$$

or

$$a + b$$

The truth table for disjunction is

a	b	$a \vee b$
F	F	F
F	T	T
T	F	T
T	T	T