

# Truth tables of connectives

XOR

$\varphi$	$\psi$	$\varphi \oplus \psi$
1	1	0
1	0	1
0	1	1
0	0	0

Implication

$\varphi$	$\psi$	$\varphi \rightarrow \psi$
1	1	1
1	0	0
0	1	1
0	0	1

Equivalence

$\varphi$	$\psi$	$\varphi \leftrightarrow \psi$
1	1	1
1	0	0
0	1	0
0	0	1

Negation

$\varphi$	$\neg \varphi$
1	0
0	1

Conjunction

$\varphi$	$\psi$	$\varphi \wedge \psi$
1	1	1
1	0	0
0	1	0
0	0	0

Disjunction

$\varphi$	$\psi$	$\varphi \vee \psi$
1	1	1
1	0	1
0	1	1
0	0	0