

Symboler, sanningstabeller och Booleska uttryck för grindar.

Logisk funktion

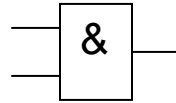
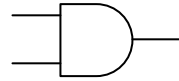
Amerikansk symbol

Europeisk symbol

Sanningstabell

Booleskt uttryck

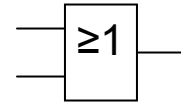
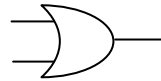
AND



a	b	f
0	0	0
0	1	0
1	0	0
1	1	1

$$f = a \cdot b$$

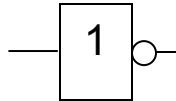
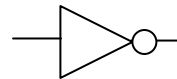
OR



a	b	f
0	0	0
0	1	1
1	0	1
1	1	1

$$f = a + b$$

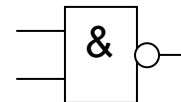
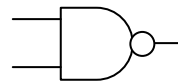
NOT



a	f
0	1
1	0

$$f = a'$$

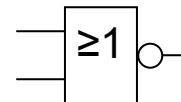
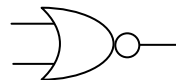
NAND



a	b	f
0	0	1
0	1	1
1	0	1
1	1	0

$$f = (a \cdot b)'$$

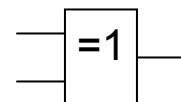
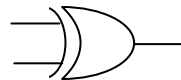
NOR



a	b	f
0	0	1
0	1	0
1	0	0
1	1	0

$$f = (a + b)'$$

XOR



a	b	f
0	0	0
0	1	1
1	0	1
1	1	0

$$f = a \oplus b$$