

Logic Gates

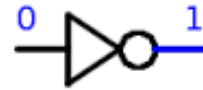
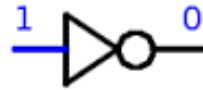
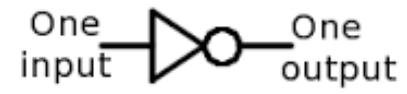
Logic

AND

Logic

OR

NOT

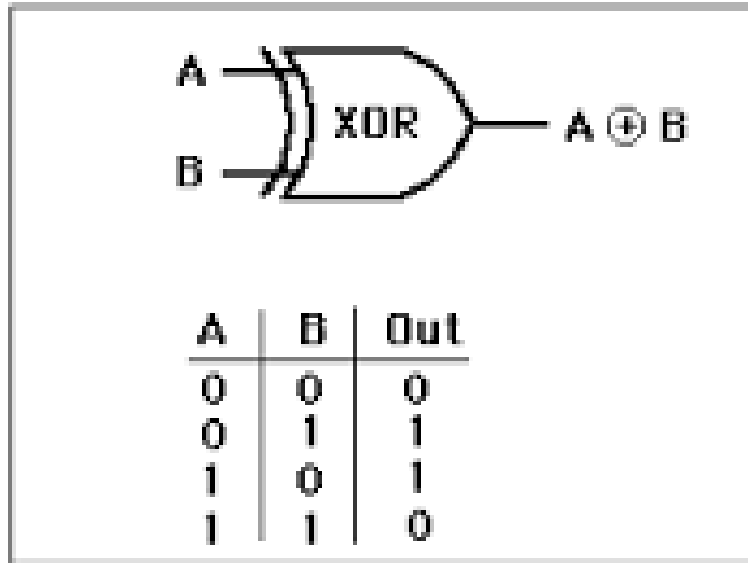


NAND

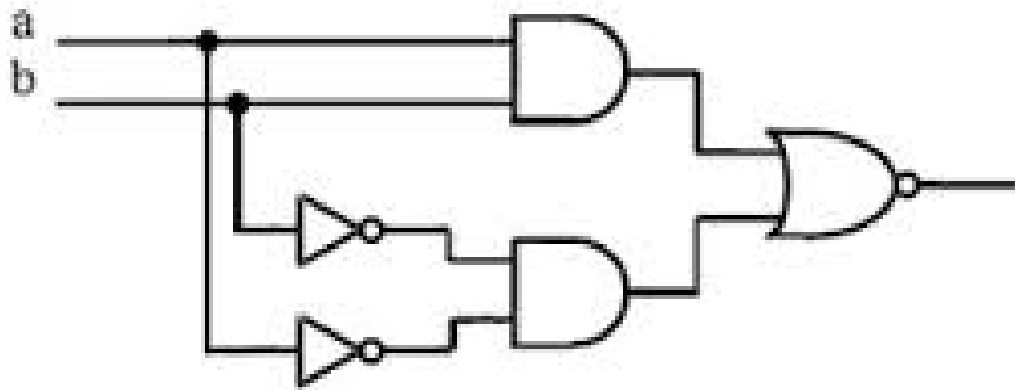
Logic

NOR

Exclusive OR



Examples



$$\overline{a}b + a\overline{b} = \overline{a \oplus b} = a \oplus b \rightarrow \text{EX - OR}$$

Truth Tables:

Examples

A	B	C	Output
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Logic

A	B	AND	OR	XOR	NOT B
0	0	0	0	0	1
0	1	0	1	1	0
1	0	0	1	1	1
1	1	1	1	0	0

