AND

$Q = A.B$

A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1

OR

$Q = A + B$

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1

NOT

$Q = \overline{A}$

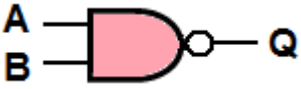
A	Q
0	1
1	0

XOR

$Q = A \oplus B$

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	0

NAND



$Q = \overline{A.B}$

A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0

NOR

$Q = \overline{A + B}$

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	0