The AND Logic Gate:

AND

x	y	xy
0	0	0
0	1	0
1	0	0
1	1	1

A
B
$A \cdot B$
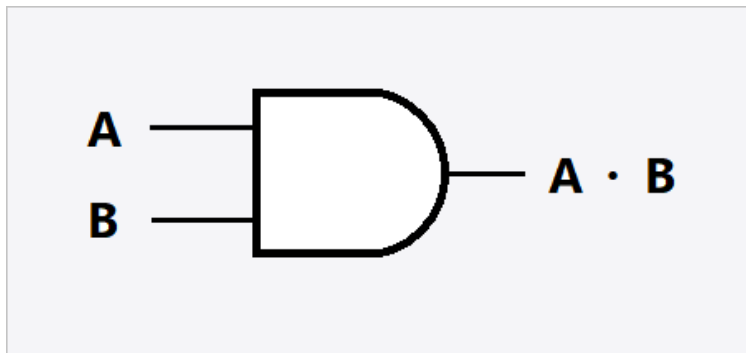
The OR Logic Gate:

OR

x	y	x+y
0	0	0
0	1	1
1	0	1
1	1	1

A
B
$A + B$
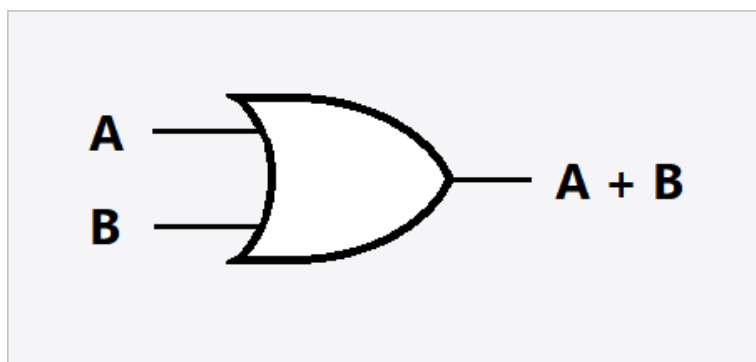
The NOT Logic Gate:

NOT

x	x'
0	1
1	0

A
~A