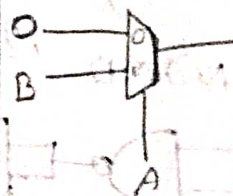


AND



A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

$$Y = A \cdot B$$



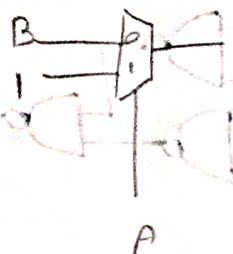
$$Y = A' \cdot 0 + AB = AB$$

OR



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

$$Y = A + B$$



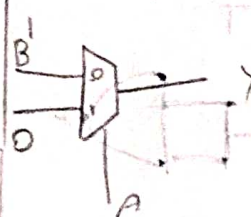
$$Y = A'B + A = A + B$$

NOR



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

$$Y = \overline{A + B}$$



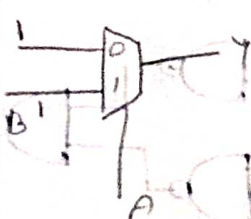
$$Y = A'B + A \cdot 0 = A'B = \overline{A+B}$$

NAND



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

$$Y = \overline{A \cdot B}$$



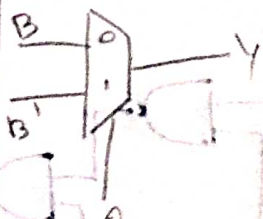
$$Y = A' + AB' = A' + B' = \overline{A \cdot B}$$

XOR



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

$$Y = \overline{A}B + A\overline{B} = A \oplus B$$



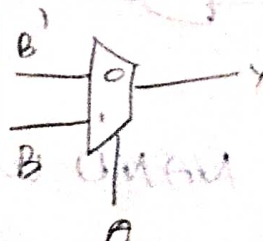
$$Y = A'B + AB' = A \oplus B$$

XNOR



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

$$Y = \overline{A} \overline{B} + AB = A \odot B$$



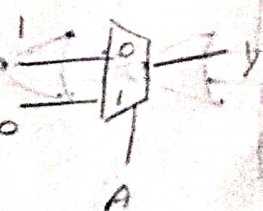
$$Y = A'B' + AB = A \odot B$$

NOT



A	Y
0	1
1	0

$$Y = \overline{A}$$



$$Y = A' + A \cdot 0 = A'$$