

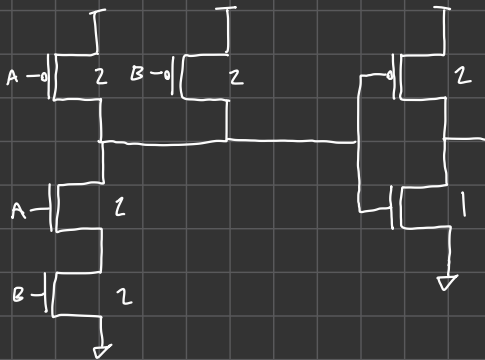
AND

PDN

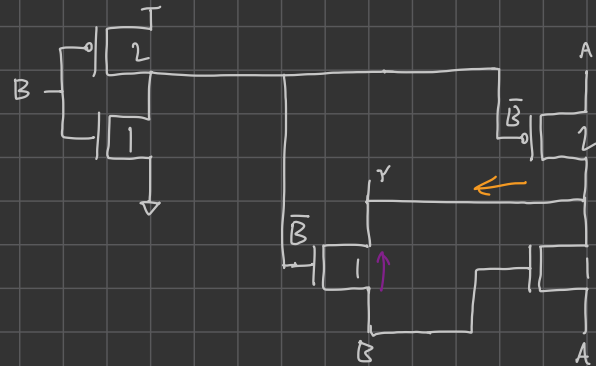
PUN

A	B	Y		
0	0	1	OFF	ON
0	1	0	ON	OFF
1	0	0	ON	OFF
1	1	1	OFF	ON
			A B	$\bar{A} + \bar{B}$

AND



AND Alternative



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

XOR

$$\bar{A}B + A\bar{B}$$

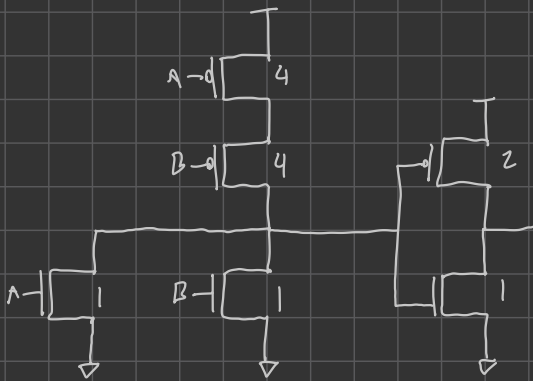
$$PUN: \bar{A}B + A\bar{B}$$

A	B	OUT
0	0	0
0	1	1
1	0	1
1	1	0

OR

$$PUN: \overline{A+B} \quad PDN = \overline{A+B} = \bar{A}\bar{B}$$

A	B	OUT
0	0	0
0	1	1
1	0	1
1	1	1

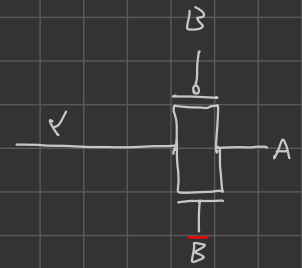
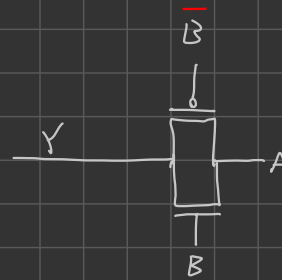
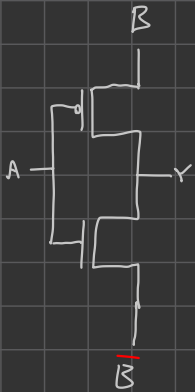


A	B	✓
0	0	X
0	1	1 (B)
1	0	X
1	1	0 (B)

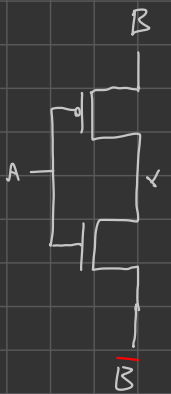
A	B	✓
0	0	X
0	1	0 (B)
1	0	X
1	1	1 (B)

A	B	✓
0	0	X
0	1	0 (A)
1	0	X
1	1	1 (A)

A	B	✓
0	0	0 (A)
0	1	X
1	0	1 (A)
1	1	X



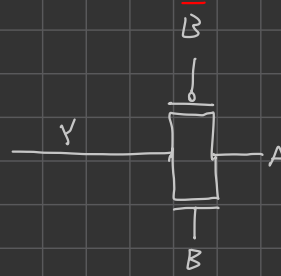
A	B	Y
0	0	X
0	1	1 (\bar{B})
1	0	X
1	1	0 (\bar{B})



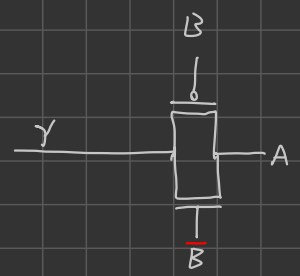
A	B	Y
0	0	1 (\bar{B})
0	1	X
1	0	0 (\bar{B})
1	1	X



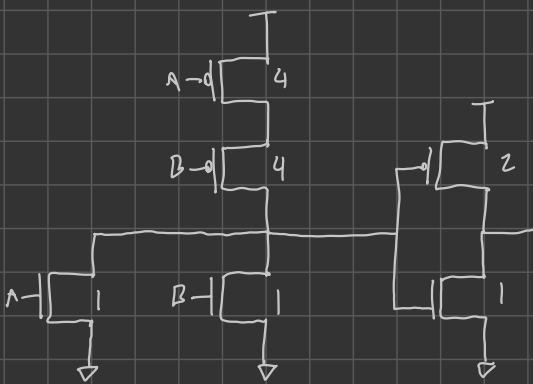
A	B	Y
0	0	X
0	1	0 (A)
1	0	X
1	1	1 (A)



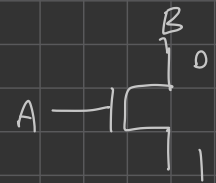
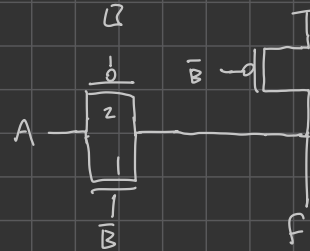
A	B	Y
0	0	0 (A)
0	1	X
1	0	1 (A)
1	1	X



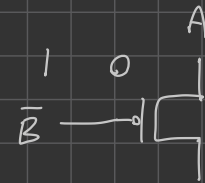
OR GATE



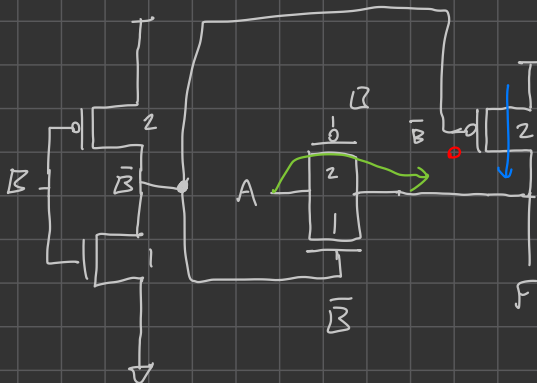
OR Alter



A	B	F
0	0	X
0	1	X
1	0	0
1	1	X



A	B	F
0	0	X
0	1	X
1	0	X
1	1	1



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