

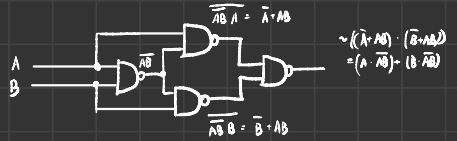
§11

1.

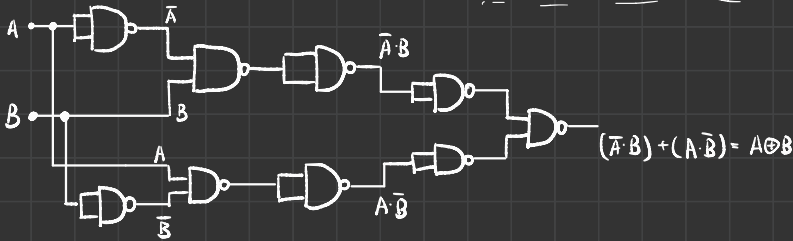
A	B	$\overline{A \cdot B}$
0	0	1
1	0	1
0	1	1
1	1	0

A	B	$A \oplus B$
0	0	0
1	0	1
0	1	1
1	1	0

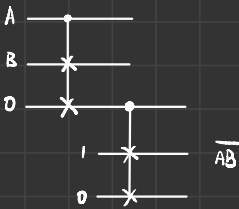
或



$$A \oplus B = (\bar{A} \cdot B) + (A \cdot \bar{B})$$



2.



3.



$$|000\rangle \rightarrow \frac{1}{\sqrt{2}}(|000\rangle + |100\rangle)$$

$$\rightarrow \frac{1}{\sqrt{2}}(|000\rangle + |100\rangle)$$

$$\rightarrow \frac{1}{2}(|000\rangle + |001\rangle + |100\rangle + |101\rangle)$$

$$\rightarrow \frac{1}{2}(|000\rangle + |011\rangle + |100\rangle + |111\rangle)$$