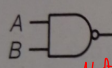
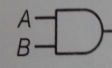
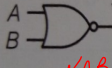
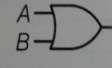
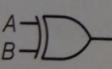
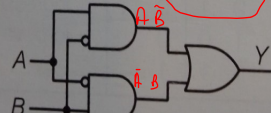
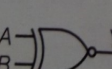
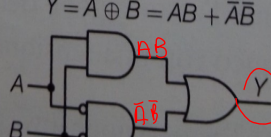


Porte derivate	Realizzazione a porte fondamentali
 A B Y NAND	 A B Y \overline{AB}
 A B Y NOR	 A B Y
 A B Y XOR	$Y = A \oplus B = \overline{A}B + A\overline{B}$  A B Y
 A B Y XNOR	$Y = \overline{A \oplus B} = \overline{A\overline{B} + \overline{A}B}$  A B Y

①

②

③

④

AB	Y
00	1
01	0
10	0
11	1

NAND

①

AB	Y
00	1
01	0
10	0
11	1

AB	$A \cdot B$	$\overline{A \cdot B}$	\overline{A}	\overline{B}	$A\overline{B}$	$\overline{A}B$	Y
00	0	1	1	1	0	0	0
01	0	1	1	0	0	1	1
10	0	1	0	1	1	0	1
11	1	0	0	0	0	0	0

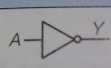
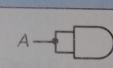
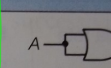
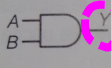
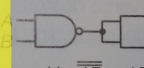
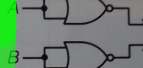
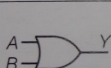
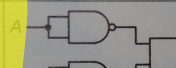
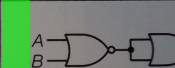
③

AB	Y
00	0
01	1
10	1
11	0

④

AB	$A \cdot B$	\overline{A}	\overline{B}	$\overline{A \cdot B}$	Y
00	0	1	1	1	1
01	0	1	0	0	0
10	0	0	1	0	0
11	1	0	0	0	1

IMPLEMENTAZIONE NAND e NOR

Porte fondamentali	A porte NAND	A porte NOR
 A Y	 A Y	 A Y
 A B Y	 A B Y $Y = \overline{\overline{A \cdot B}} = A \cdot B$	 A B Y $Y = \overline{\overline{A + B}} = A + B$
 A B Y	 A B Y $Y = \overline{\overline{A + B}} = A + B$	 A B Y $Y = \overline{\overline{A + B}} = A + B$

