

(c)

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

Y	C	A	B	00	01	11	10
0	0	0	0	0	0	1	0
1	0	1	0	1	0	1	0

$$y = \bar{A}\bar{B}C + AB$$

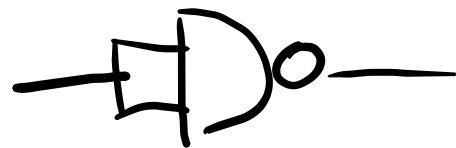
ABC	y
001	1
11x	1

$$y = A + B\bar{C} + C D \bar{B}$$

A B C D

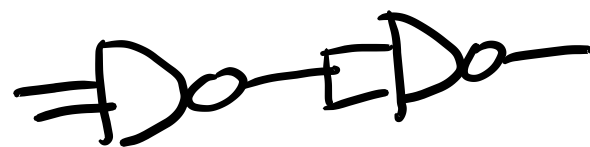
A	B	C	D	y	
1	x	x	x	1	/
x	1	0	x	1	/
x	0	1	1	1	/

NOT



AND

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

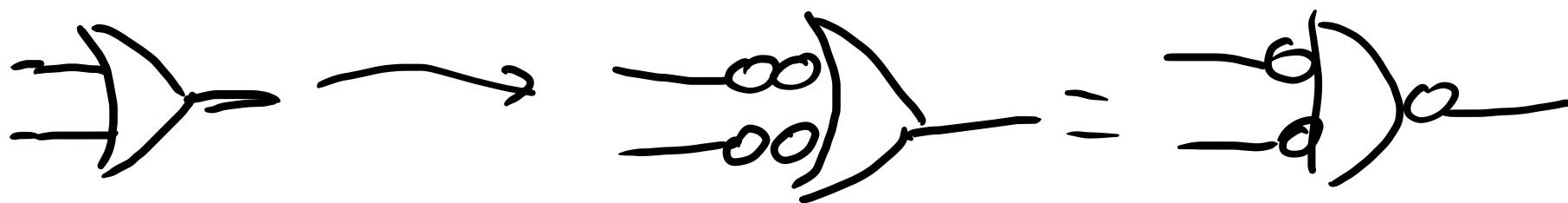


NANDS

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

OR

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



WED3A $\xRightarrow{\text{bin}}$ 1110 1101 0011 1010₂

16^3
 16^2
 16^1
 16^0

$$\begin{array}{r}
 14 \times 16^3 = 57344 \\
 13 \times 16^2 = 3328 \\
 3 \times 16^1 = 48 \\
 10 \times 16^0 = 10 \\
 \hline
 60730_{10}
 \end{array}$$

101101₂

- a) - X 2's
- b) y S/M
- c) t SS
- d) Todas
- e) Ning

$$24_{10} \rightarrow \text{BIN SS: } 1\ 1000_2 \quad [0, 2^n - 1] \Rightarrow [0; 31] \quad n=5$$

$$\text{BIN 2's: } 01\ 1000_2 \quad \uparrow \underbrace{\hspace{2cm}}_{+ \text{ magnitud}} \quad [-2^{n-1}; 2^{n-1}-1] = [-16; 15] \quad n=5 \text{ bits}$$

$$-24_{10} \rightarrow \text{BIN SS: } \text{no se puede} \quad [0; 63] \quad n=6$$

$$\text{BIN 2's: } 10\ 1000_2 \quad [-32; +31]$$

$$\begin{array}{r} \text{not} \downarrow 01\ 1000 \\ 10\ 0111 \\ +1 \downarrow \quad 1 \\ \hline 10\ 1000_2 = -24_{10} \end{array}$$

$$1011_2 \Rightarrow \underline{\underline{-5_{10}}}$$

2's

$$\begin{array}{r}
 1011 \\
 \text{not } \hookrightarrow 0100 \\
 + \quad \quad \quad \uparrow \\
 \hline
 0101_2 = \underline{\underline{5_{10}}}
 \end{array}$$

$$\begin{array}{r} 24 \\ - 10 \\ \hline 14_{10} \\ \hline \hline \end{array}$$

$$\begin{array}{r} 24 \\ + (-10) \\ \hline \end{array}$$

$$\rightarrow 01\ 1000_2 \quad (24 \text{ en } 2's)$$

$$+ 11\ 0110_2$$

$$* 00\ 1110_2 \quad 2's$$

$$+ 14_{10}$$

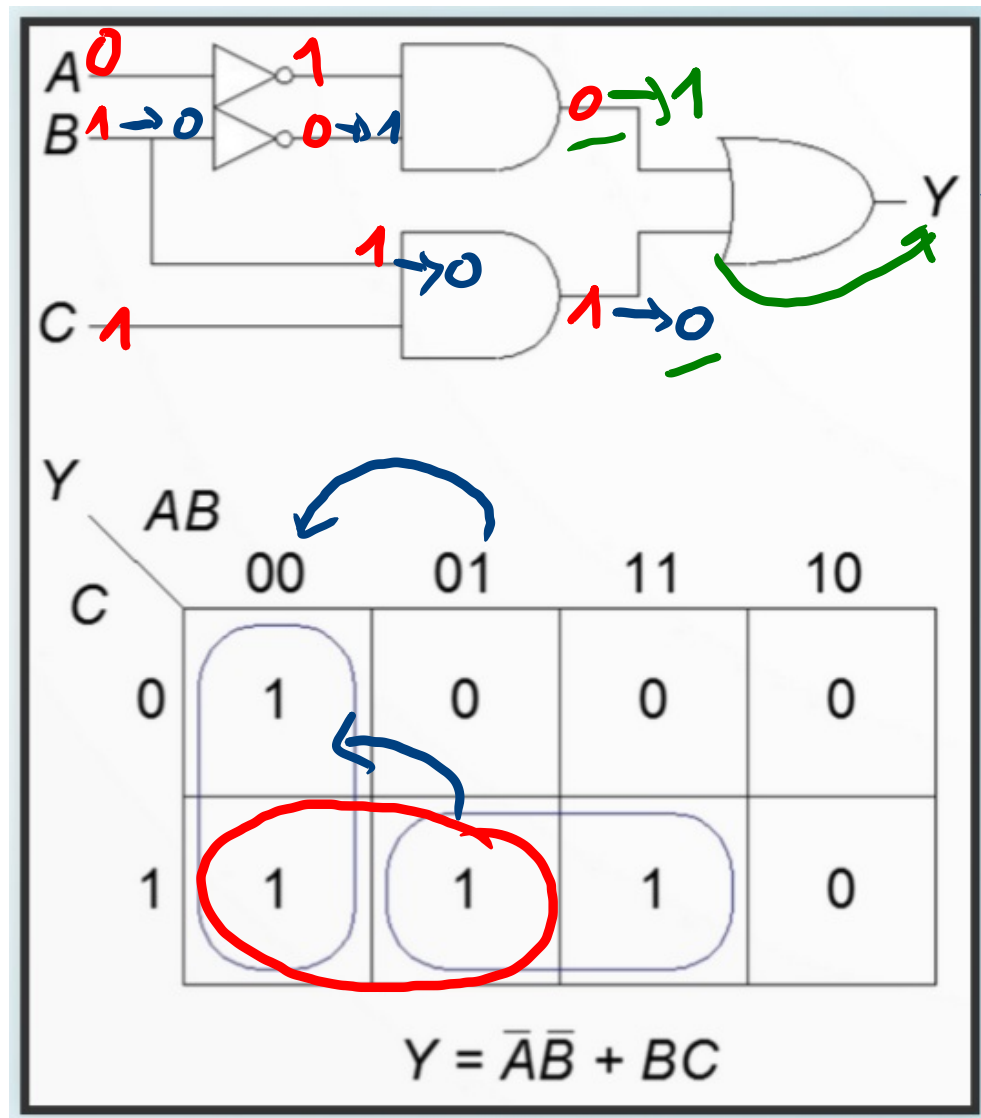
-10:

$$00\ 10\ 10_2 = 10_{10}$$

$$2's\ 11\ 01\ 10_2 = -10_{10}$$

$$\left. \begin{array}{l} A=0 \\ B=1 \\ C=1 \end{array} \right\} y=1$$

$$\left. \begin{array}{l} A=0 \\ B=0 \\ C=1 \end{array} \right\} y=1$$



$$Y = 1 \rightarrow 0 \rightarrow 1$$