

TABLA 1

A	B	C	Y	min term
0	0	0	1	m_0
0	0	1	0	m_1
0	1	0	1	m_2
0	1	1	0	m_3
1	0	0	1	m_4
1	0	1	1	m_5
1	1	0	0	m_6
1	1	1	1	m_7

Ecuación SOP :

$$y = m_0 + m_2 + m_4 + m_5 + m_7$$

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

Ecuación POS :

$$y = M_1 \cdot M_3 \cdot M_7$$

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

TABLA 2

A	B	C	Y
0	0	0	0 m_0
0	0	1	1 m_1
0	1	0	0 m_2
0	1	1	0 m_3
1	0	0	0 m_4
1	0	1	0 m_5
1	1	0	1 m_6
1	1	1	1 m_7

Ecuación SOP :

$$y = m_1 + m_6 + m_7$$

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

Ecuación POS :

$$y = M_0 \cdot M_2 \cdot M_3 \cdot M_4 \cdot M_5$$

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

TABLA 3

A	B	C	D	Y	
0	0	0	0	1	m_0
0	0	0	1	1	m_1
0	0	1	0	1	m_2
0	0	1	1	1	m_3
0	1	0	0	0	m_4
0	1	0	1	0	m_5
0	1	1	0	0	m_6
0	1	1	1	0	m_7
1	0	0	0	1	m_8
1	0	0	1	0	m_9
1	0	1	0	1	m_{10}
1	0	1	1	0	m_{11}
1	1	0	0	0	m_{12}
1	1	0	1	0	m_{13}
1	1	1	0	1	m_{14}
1	1	1	1	0	m_{15}

Ecuación SOP:

$$y = m_0 + m_1 + m_2 + m_3 + m_8 + m_{10} + m_{11}$$

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

Ecuación POS:

$$y = M_4 \cdot M_5 \cdot M_6 \cdot M_7 \cdot M_9 \cdot M_{11} \cdot M_{12} \cdot M_{13} \cdot M_{15}$$

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

TABLA 4

A	B	C	D	Y	
0	0	0	0	1	m_0
0	0	0	1	0	m_1
0	0	1	0	1	m_2
0	0	1	1	1	m_3
0	1	0	0	0	m_4
0	1	0	1	0	m_5
0	1	1	0	1	m_6
0	1	1	1	1	m_7
1	0	0	0	1	m_8
1	0	0	1	0	m_9
1	0	1	0	1	m_{10}
1	0	1	1	0	m_{11}
1	1	0	0	0	m_{12}
1	1	0	1	0	m_{13}
1	1	1	0	0	m_{14}
1	1	1	1	0	m_{15}

Ecuación SOP

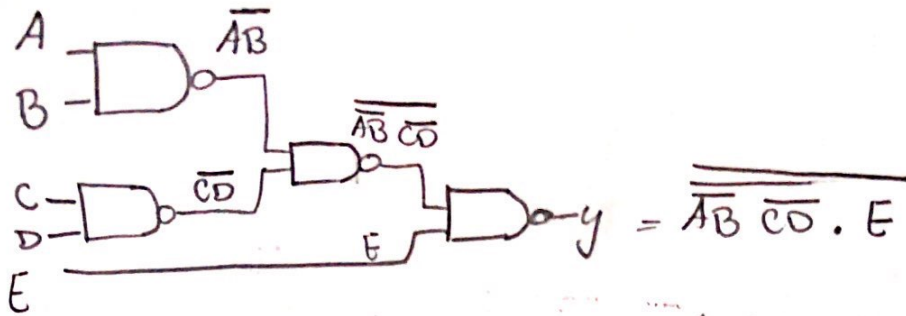
$$y = m_0 + m_2 + m_3 + m_6 + m_7 + m_8 + m_{10}$$

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

$$y = M_1 \cdot M_4 \cdot M_5 \cdot M_9 \cdot M_{11} \cdot M_{12} \cdot M_{13} \cdot M_{14} \cdot M_{15}$$

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

Ejercicio 4 - 00

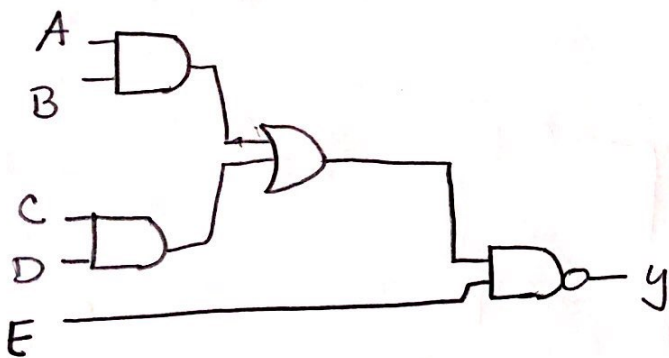


$$y = \overline{\overline{AB} \cdot \overline{CD}} + \overline{E}$$

$$y = \overline{AB} \cdot \overline{CD} + \overline{E}$$

$$y = \overline{AB + CD} + \overline{E}$$

$$y = \overline{(AB + CD) \cdot E}$$



01

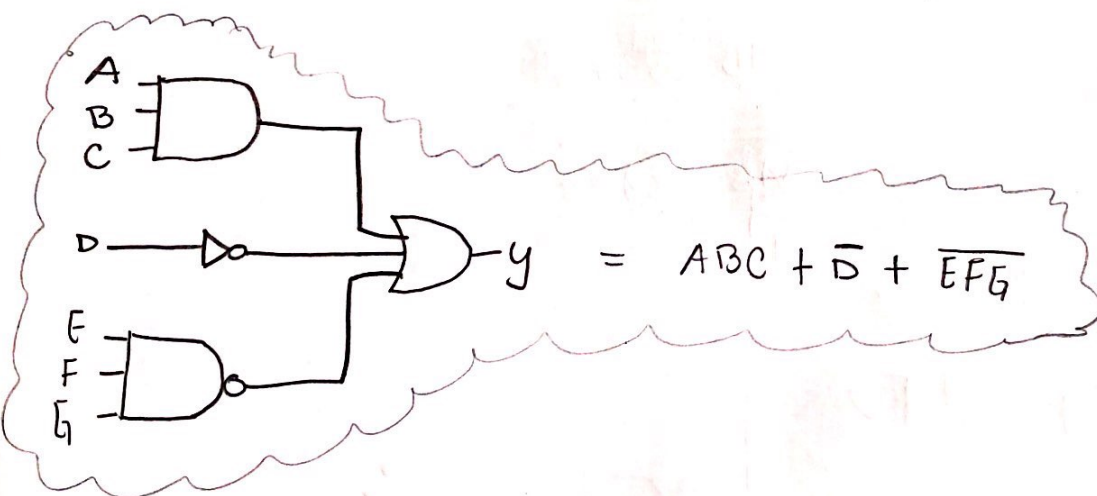
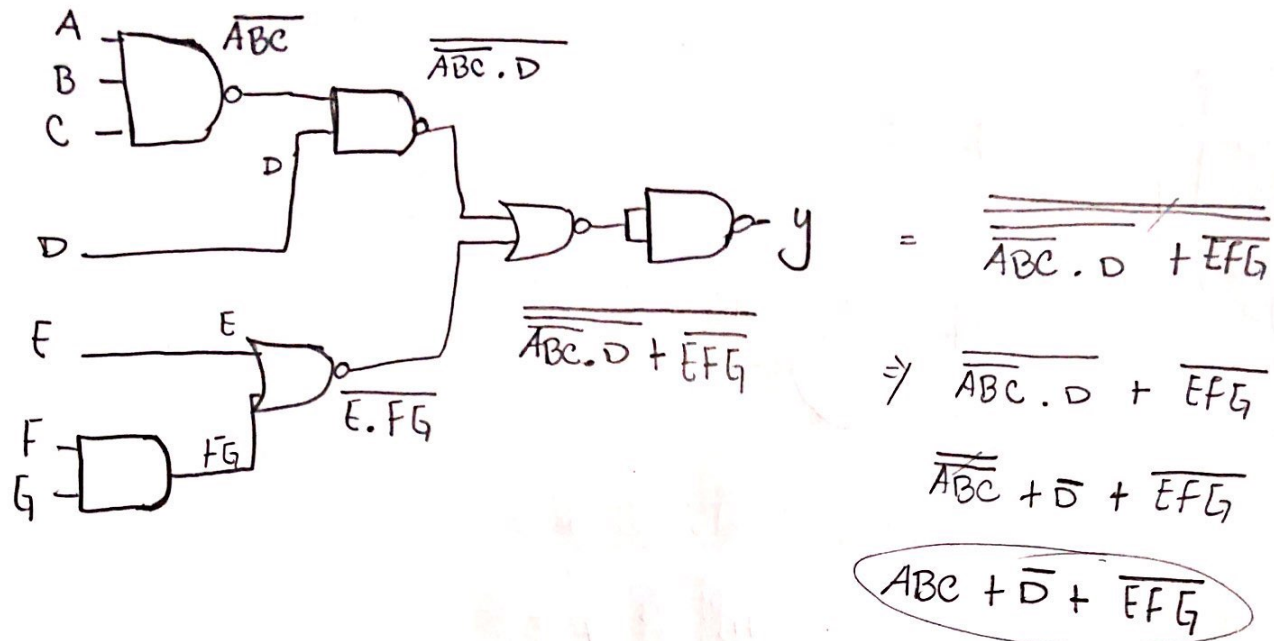


TABLA NO. 1

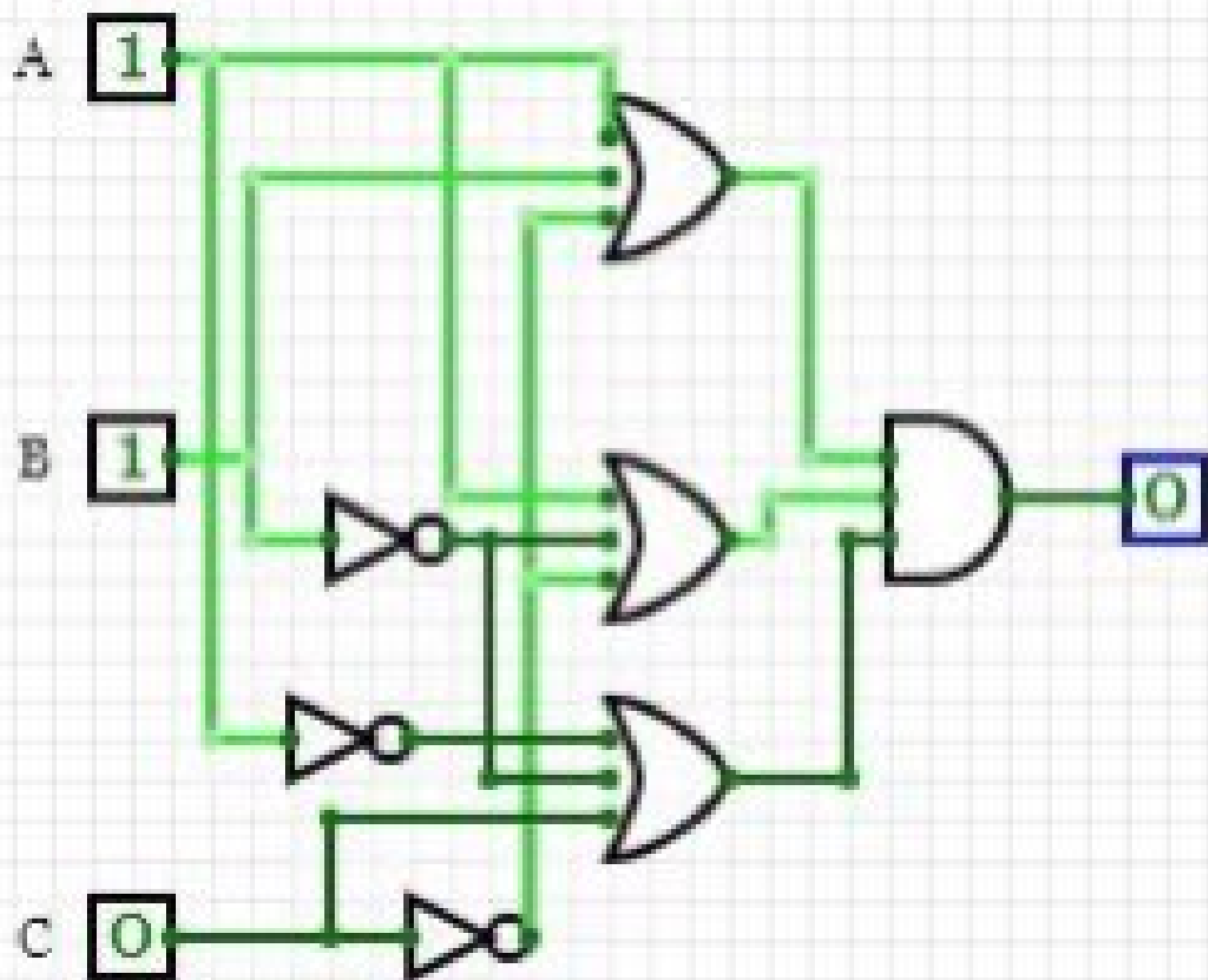


TABLA 2

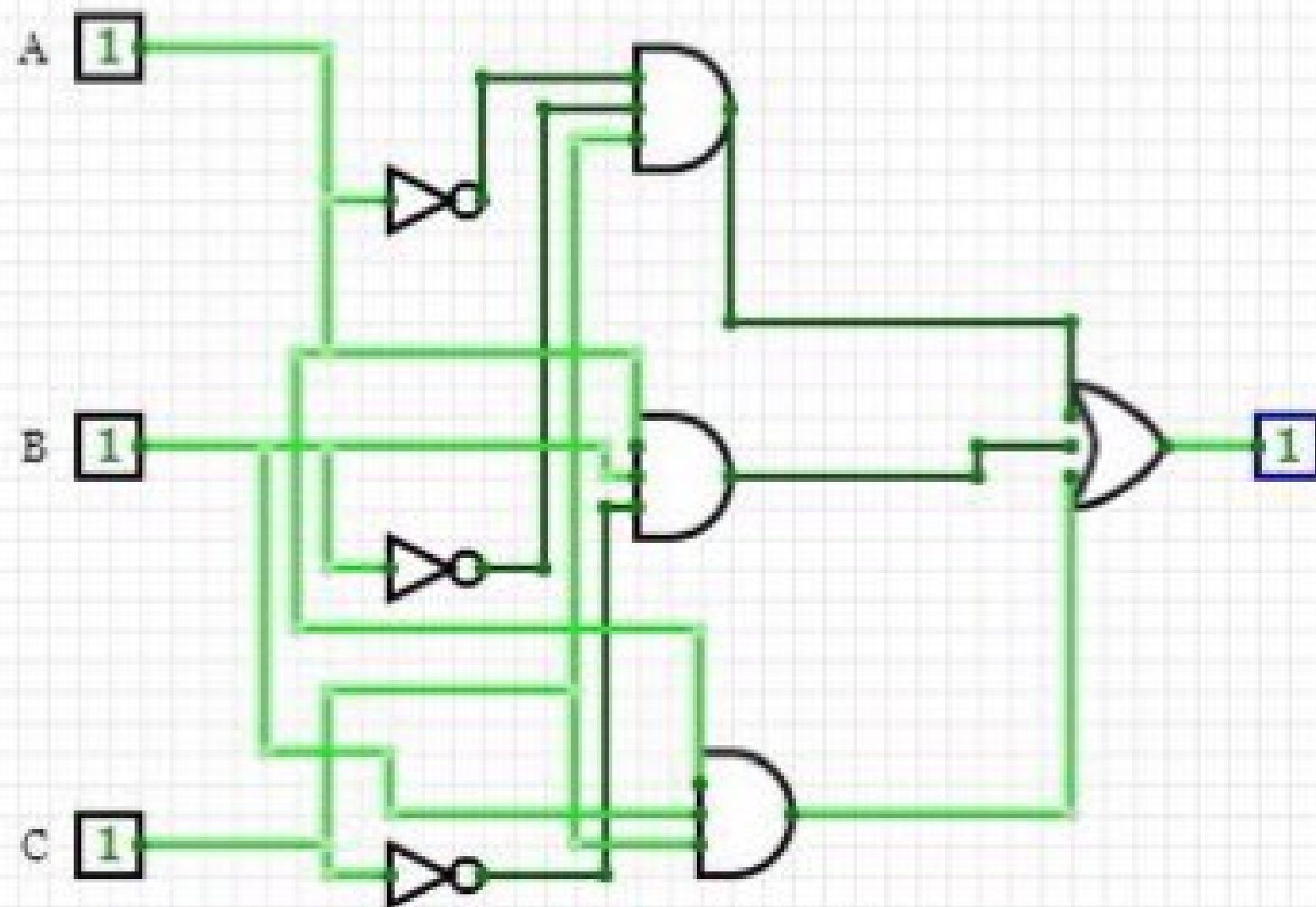


TABLA 3

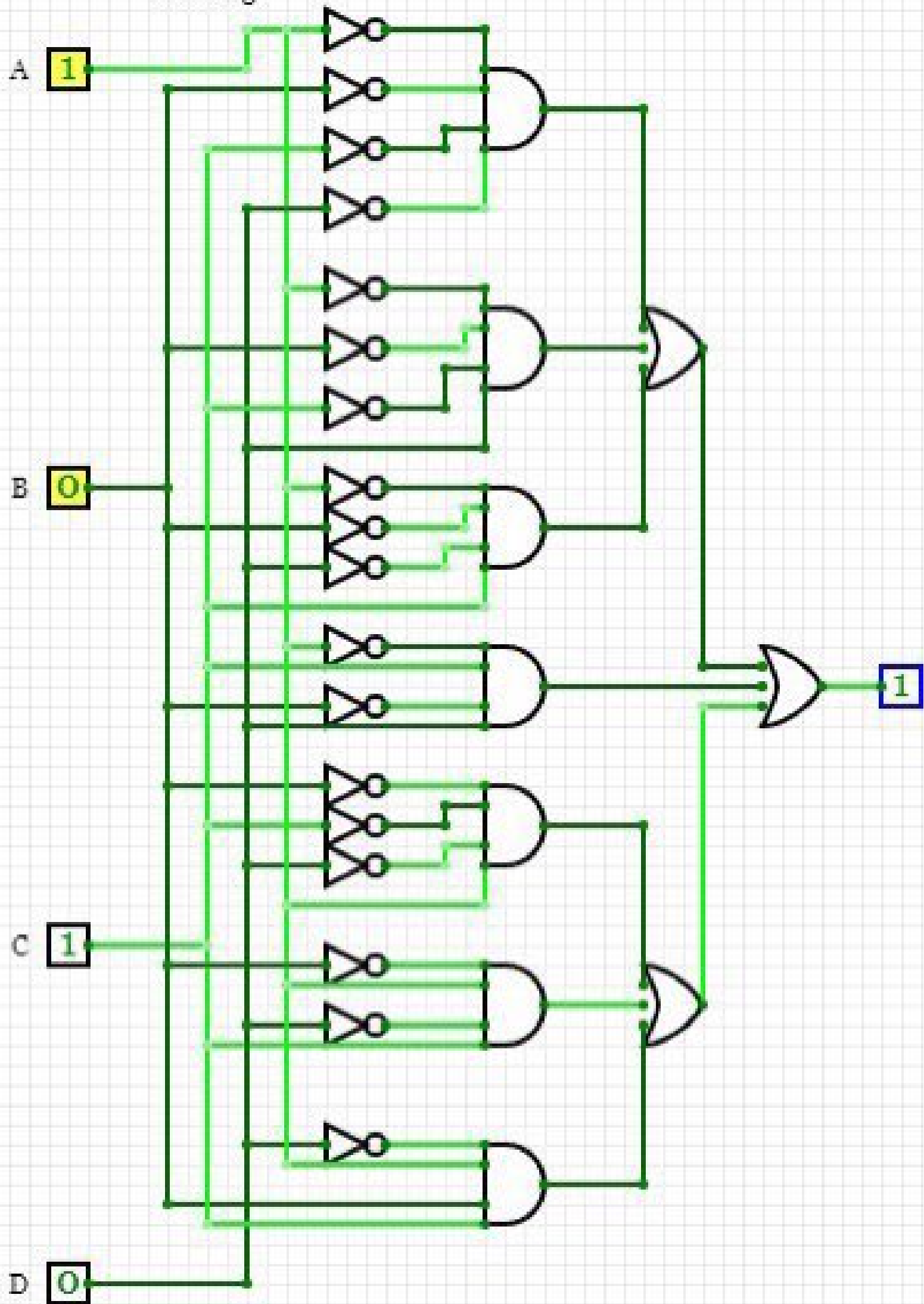


TABLA 4

