

CURS 2024/25	1º DAW- SEMI	Sistemas Informáticos	Actividad: UD1-P3 Data: 24/09/2024
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Tarea 3

Operaciones Binarias y Puertas Lógicas

- Realiza los siguientes cálculos, indicando el procedimiento seguido.

$$\begin{array}{r}
 & & 111 \\
 110110 + 101100 = & 110110 = 110110 = 1100010 \\
 & + 101100 & 101100 \\
 & 010 & 11 00
 \end{array}$$

$$\begin{array}{r}
 & & 1 \\
 111000 + 110010 = & 111000 = 111000 = 1101010 \\
 & + 110010 & 110010 \\
 & 01010 & 11
 \end{array}$$

$$\begin{array}{r}
 & & 11111 \\
 110111 + 111111 = & 110111 = 110111 = 1110110 \\
 & + 111111 & 111111 \\
 & 0 & 111011
 \end{array}$$

$$\begin{array}{r}
 & & 1 \\
 1001110 - 101100 = & 1001110 = 1001110 = 0100010 = 100010 \\
 & - 101100 & 101100 \\
 & 100010 & 0
 \end{array}$$

$$\begin{array}{r}
 & & 1 \\
 1010101 - 110100 = & 1010101 = 1010101 = 0100001 = 100001 \\
 & - 110100 & 110100 \\
 & 100001 & 0
 \end{array}$$

111

$$001100011 - 000011110 = \begin{array}{r} 001100011 \\ - 000011110 \\ \hline 101 \quad 001000 \end{array}$$

$$001100011 * 000010110 = \begin{array}{r} 001100011 \\ * 000010110 \\ \hline \end{array} = 00000100010000010 = 100010000010$$

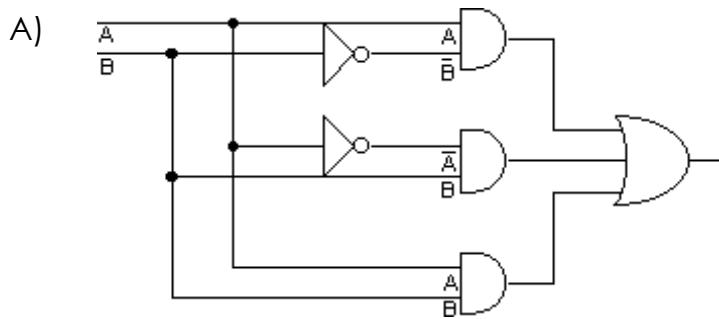
111111111

$$\begin{array}{r} 000000000 \\ 001100011 \\ 001100011 \\ 000000000 \\ 001100011 \\ 000000000 \\ 000000000 \\ 000000000 \\ + 000000000 \\ \hline 00000100010000010 \end{array}$$

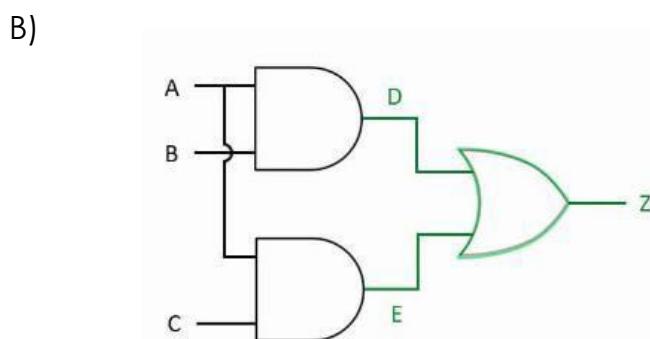
$$0110111 * 110101 = \begin{array}{r} 0110111 \\ * 110101 \\ \hline 1 \quad 1 \\ 11101011 \end{array} = 101101100011$$

$$\begin{array}{r} 0110111 \\ 0000000 \\ 0110111 \\ 0000000 \\ 0110111 \\ + 0110111 \\ \hline 101101100011 \end{array}$$

2. Indica la tabla de verdad de cada uno de los siguientes circuitos lógicos:

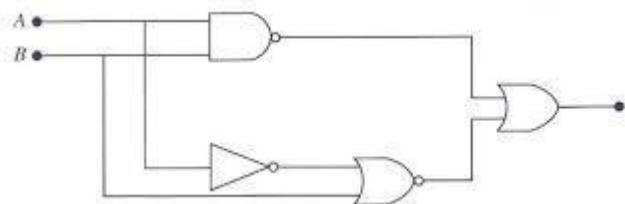


A	B	C
0	0	0
0	1	1
1	0	1
1	1	1



A	B	C	Z
0	0	0	0
0	0	1	0
1	0	1	1
0	1	1	0
1	1	1	1
1	1	0	1
0	1	0	0
1	0	0	0

C)



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

