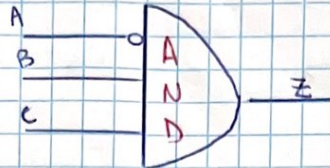


TRABAJO PRÁCTICO Nº 1 - GIANLUCA CARLINI

①

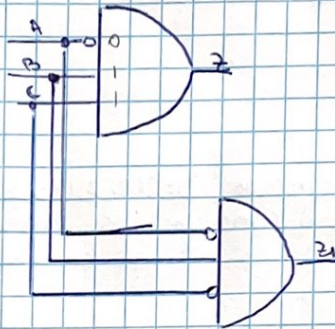
A	B	C	Z
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0



$$Z = \bar{A} \cdot B \cdot C$$

②

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



$$Z = \bar{A} \cdot B \cdot C$$

$$Z_1 = \bar{A} \cdot B \cdot \bar{C}$$

③

AND

OR

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

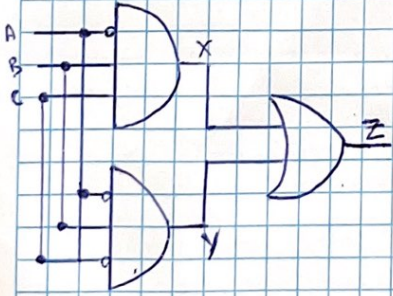
$$Z = A \cdot B$$

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

$$Z = A + B$$

A	B	C	X	Y	Z
0	0	0	0	0	0
0	0	1	0	0	0
0	1	1	1	0	1
0	1	0	0	1	1
1	0	0	0	0	0
1	0	1	0	0	0
1	1	0	0	0	0
1	1	1	0	0	0

$$X = A \cdot B \cdot C \quad Y = A \cdot B \cdot \bar{C} \quad Z = X + Y$$



5

AND

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

$$Z = A \cdot B$$

OR

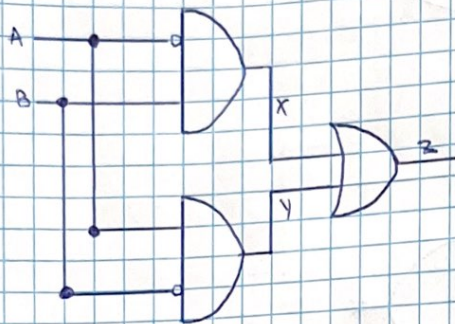
A	B	Z
0	0	0
0	1	1
1	0	1
1	1	1

$$Z = A + B$$

XOR

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

$$Z = A \oplus B$$



3) EL CIRCUITO SE DENOMINA **DECODIFICADOR**. CONSTA DE 3 ENTRADAS QUE PERMITEN HASTA 8 COMBINACIONES POSIBLES DE LAS CUALES SOLO UNA COMBINACIÓN DA 1. SE UTILIZA EN LA MEMORIA POR EL BUS DE DIRECCIONES.

AND

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

$$Z = A \cdot B$$

A	B	C	Z	21	22	23	24	25	26	27
0	0	0	0	0	0	0	0	0	0	0
0	0	1	0	1	0	0	0	0	0	0
0	1	0	0	0	1	0	0	0	0	0
0	1	1	0	0	0	1	0	0	0	0
1	0	0	0	0	0	0	1	0	0	0
1	0	1	0	0	0	0	0	1	0	0
1	1	0	0	0	0	0	0	0	1	0
1	1	1	1	0	0	0	0	0	0	0

$$Z = A \cdot B \cdot C$$

$$Z_1 = \bar{A} \cdot \bar{B} \cdot C$$

$$Z_2 = \bar{A} \cdot B \cdot C$$

$$Z_3 = \bar{A} \cdot \bar{B} \cdot \bar{C}$$

$$Z_4 = A \cdot \bar{B} \cdot \bar{C}$$

$$Z_5 = A \cdot \bar{B} \cdot C$$

$$Z_6 = A \cdot B \cdot \bar{C}$$

$$Z_7 = A \cdot B \cdot C$$

Sigue



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