

Date/...../.....

$$X \cdot 0 = 0$$

$$X + 1 = 1$$

$$X \cdot X' = 0$$

$$X + X' = 1$$

$$(X')' = X$$

$$X \cdot X = X$$

$$X \cdot 1 = X$$

$$X + 0 = X$$

$$X + X = X$$

POS \Rightarrow Toplamların Çarpımı

SOP \Rightarrow Çarpımların toplamı

$$XY = YX$$

$$X+Y = Y+X$$

$$(XY)Z = X(YZ) = XYZ$$

$$(X+Y)+Z = X+(Y+Z) = X+Y+Z$$

$$X(Y+Z) = XY + XZ$$

$$X+YZ = (X+Y)(X+Z) \rightarrow \text{POS}$$

$$(X+Y)(X'+Z) = XZ + X'Y \rightarrow \text{SOP}$$

Date/...../.....

Minterm (Σ) \rightarrow SOP

\rightarrow Çenisi letilecekse eksik değişkenlerine

$(x+x')$ eklenerek yapılır.

$\rightarrow A=1 \quad A'=0$

$$\boxed{AC+BC}$$

Maxterm (Π) \rightarrow POS

\rightarrow Çenisi letilecekse eksik değişkenlerine

(xx') eklenerek yapılır.

$\rightarrow A=0 \quad A'=1$

$$\boxed{(A+B) \cdot (B+C)}$$

Date/...../.....

~~SS~~

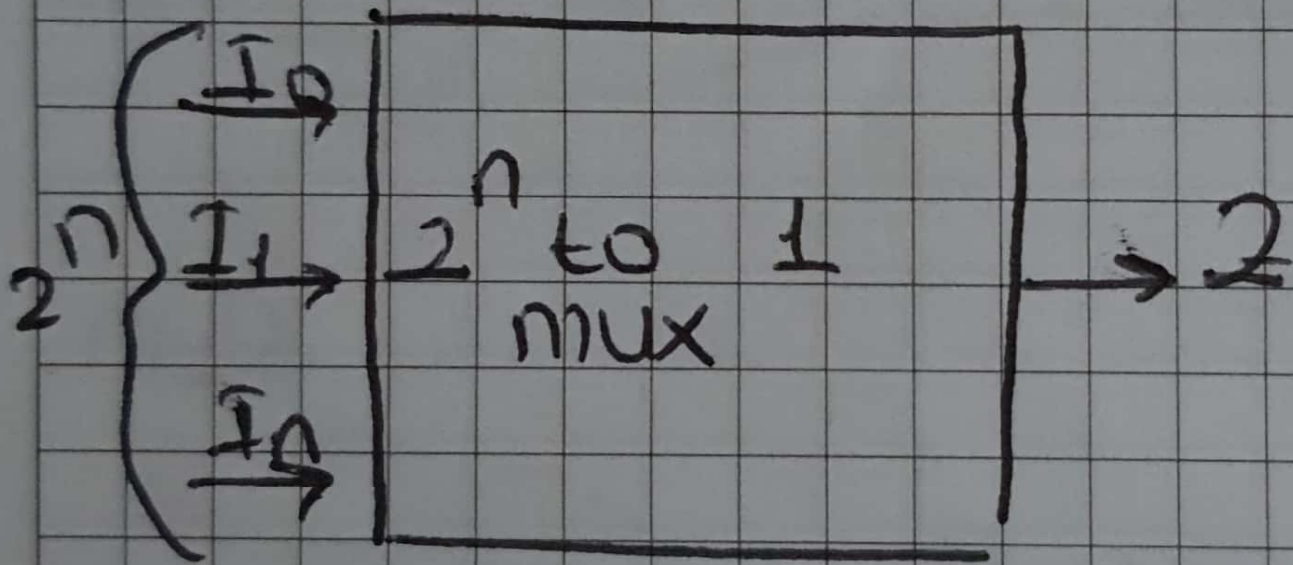
	00	01	11	10
00				
01	0	1	3	2
11	4	5	7	6
10	12	13	15	14
	8	9	11	10

~~BC~~

A	00	01	11	10
0				
1	0	1	3	2
	4	5	7	6

Multiplexers

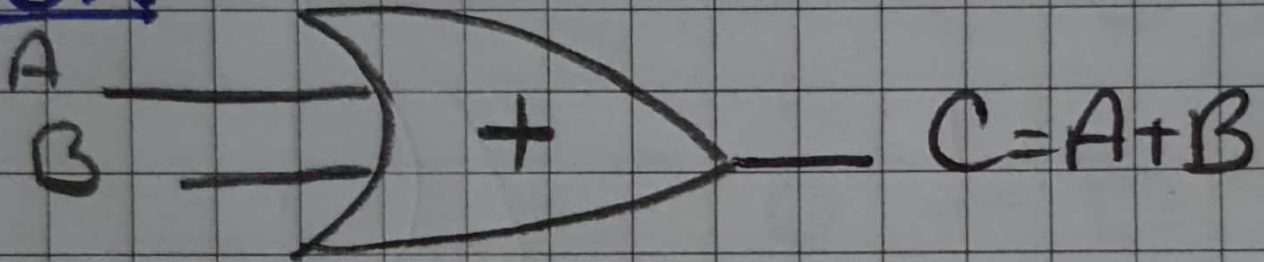
Date/...../.....



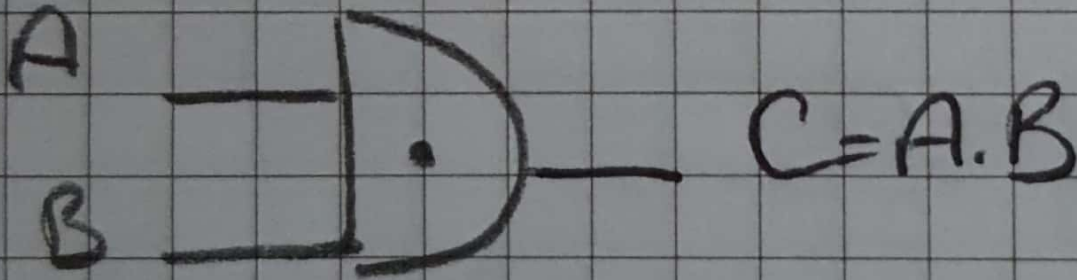
(n)
alamat
gelen
kontrol
girisi

Date/...../.....

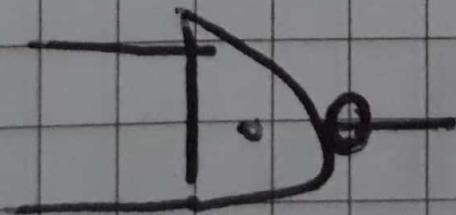
OR



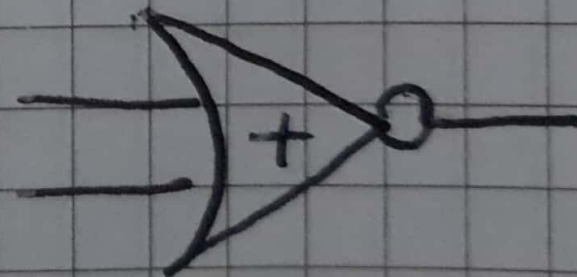
AND



X	Y	AND	OR	NAND	NOR
0	0	0	0	1	1
0	1	0	1	1	0
1	0	0	1	1	0
1	1	1	1	0	0



NAND



NOR

Date/...../.....

- +
AND-OR (SOP)

Minterm

NAND - NAND

OR-AND
"

(POS) Maxterm

NOR - NOR

OR - NOR

Date/...../.....

Terslenmemiş Decoder

- Çıktılar minterm olmak zorundadır.
- Eğer maxterm ise NOR ile gelsin.

Terslenmiş (tümleyenlenmiş) Decoder

- Çıktılar maxterm olmak zorundadır. \circ K - AND
- Eğer minterm ise NAND ile gelsin.

Uyarılma Tablosu

θ	θ^+	S	R	J	K	D	T
0	0	0	X	0	X	0	0
0	1	1	0	1	X	1	1
1	0	0	1	X	1	0	1
1	1	X	0	X	0	1	0

Date/...../.....

J	K	Θ^+	S	R	Θ^+
0	0	0	0	0	0
0	1	0	0	1	0
1	0	1	1	0	1
1	1	0	1	1	1

PreN	ClrN	Θ^+
0	0	1
0	1	0
1	0	1
1	1	0

T	Θ^+
0	0
1	1