Boolean Algebra -> discussion on boolean variables and

True/1 False/0

Logic Gates

Primary logic gate - AND, OR, NOT

A	В	A.B
0	0	0
0	i	0
1	0	0
ı	1 , 1	1

$$\begin{array}{ccc}
A) & B & \longrightarrow 1 \\
1 & 1 &
\end{array}$$

XOR

A	B	1 AOC
0	0	0
0	1	Q
	0	
1	1 1	0

$$A \oplus B = \overline{A}B + A\overline{B}$$

		-	_ o
Truth Table			
A	B	01 50M	CARRY
0	0	0	0
0	T /	1 1	0
١	0	ı	0
((1 4	0 (1
1	1		

$$b \rightarrow 0$$

$$1 \rightarrow 1$$

$$\begin{array}{ccc} 1 & \longrightarrow & 1 \\ 2 & \longrightarrow & 10 \end{array}$$

50M= A⊕B 4 -> 100

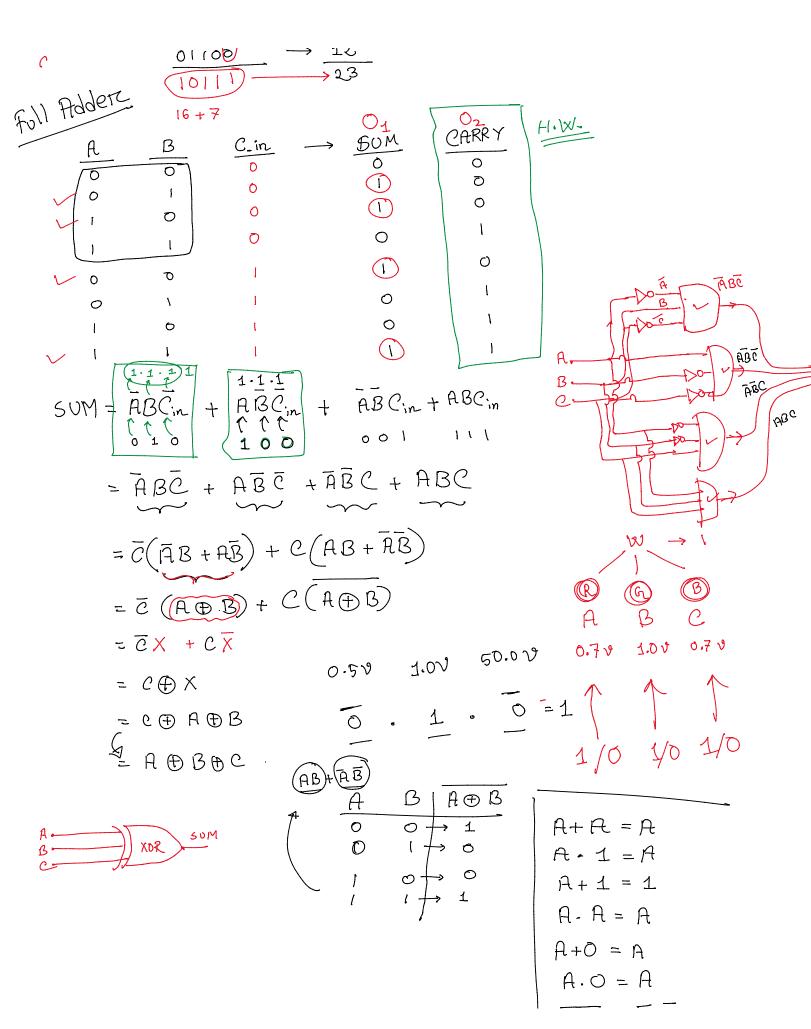
earry = A.B

13%10=3

$$\frac{2}{2} = \frac{1}{2}$$

C =

$$\begin{array}{ccc}
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
\hline
0 & 0 & 0 & 0 \\
\hline
10 & 0 & 0 & 0 \\
\hline
\end{array}$$





$$A \cdot O = A$$

$$\overline{A+B} = \overline{A} \cdot \overline{B}$$

$$\overline{A \cdot B} = \overline{A} + \overline{B}$$

Number

