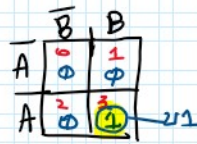
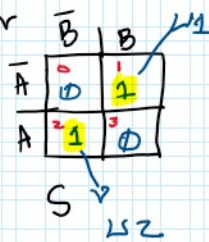


Meio Somador

A	B	S	TS
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

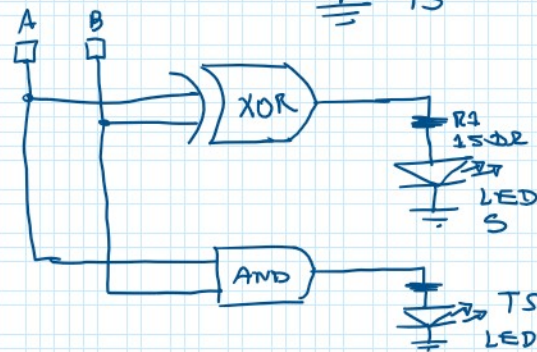
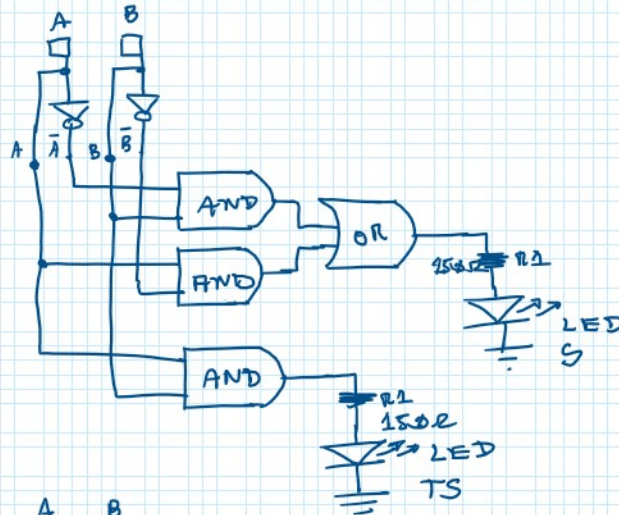


$$TS = A \cdot B$$

$$U1 = \bar{A} \cdot B$$

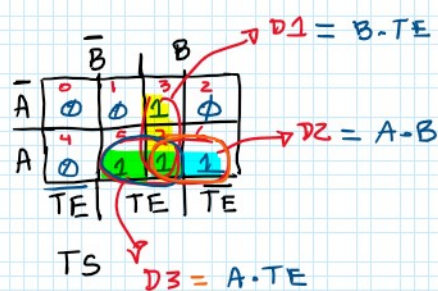
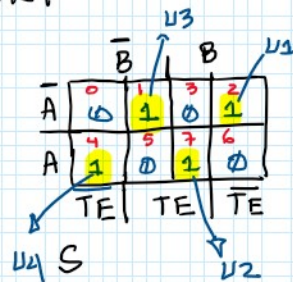
$$U2 = A \cdot \bar{B}$$

$$S = \bar{A} \cdot B + A \cdot \bar{B}$$



Somador Completo

A	B	TE	S	TS
0	0	0	0	0
0	0	1	0	1
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1



$$U1 = \bar{A} \cdot B \cdot \bar{TE}$$

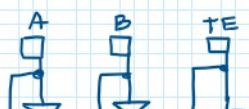
$$U2 = A \cdot B \cdot TE$$

$$U3 = \bar{A} \cdot \bar{B} \cdot TE$$

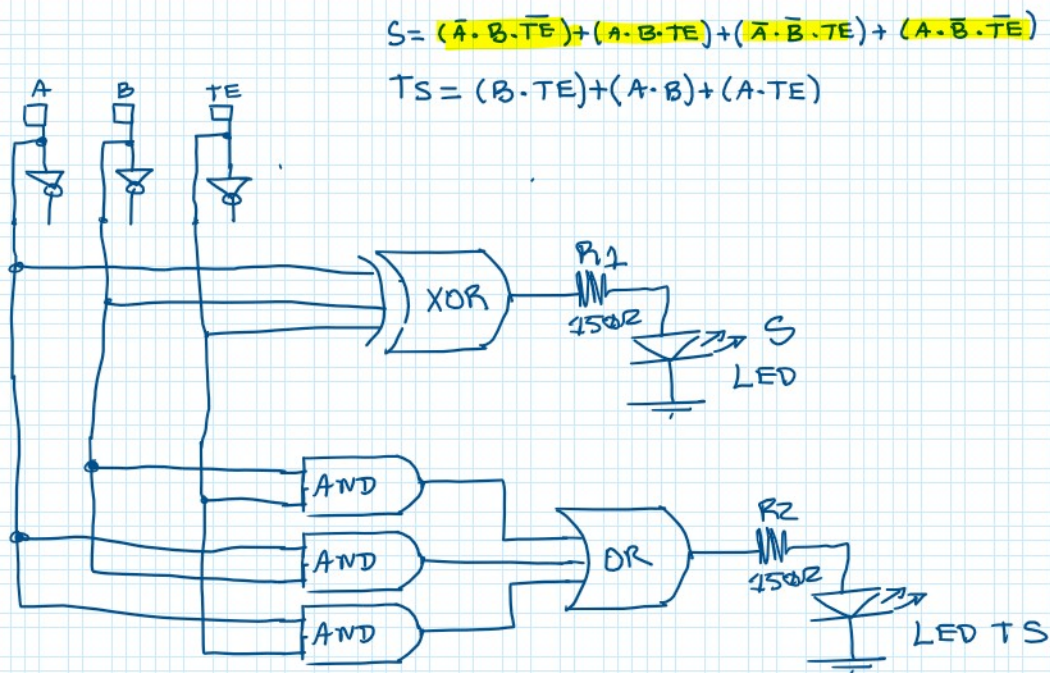
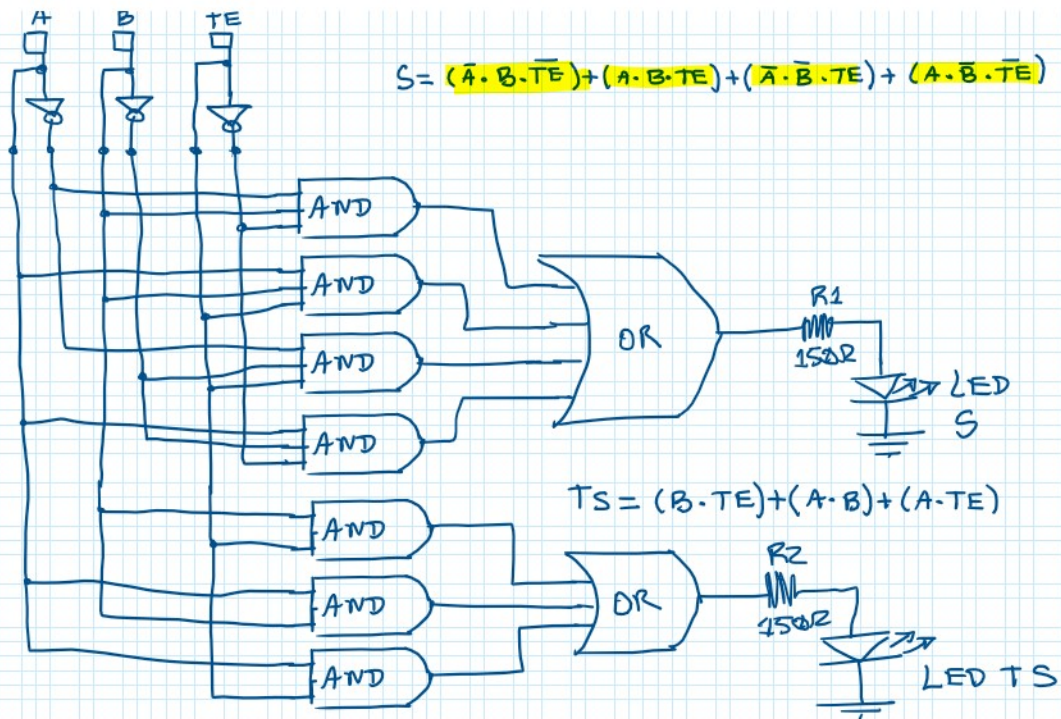
$$U4 = A \cdot \bar{B} \cdot \bar{TE}$$

$$TS = (B \cdot TE) + (A \cdot B) + (A \cdot TE)$$

$$S = (\bar{A} \cdot B \cdot \bar{TE}) + (A \cdot B \cdot TE) + (\bar{A} \cdot \bar{B} \cdot TE) + (A \cdot \bar{B} \cdot \bar{TE})$$



$$S = (\bar{A} \cdot B \cdot \bar{TE}) + (A \cdot B \cdot TE) + (\bar{A} \cdot \bar{B} \cdot TE) + (A \cdot \bar{B} \cdot \bar{TE})$$



Somador de 4bit

montado é visto na figura 5.37.

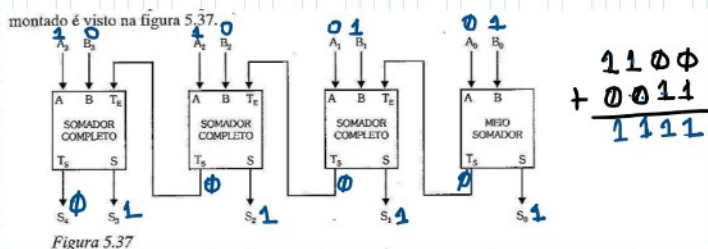
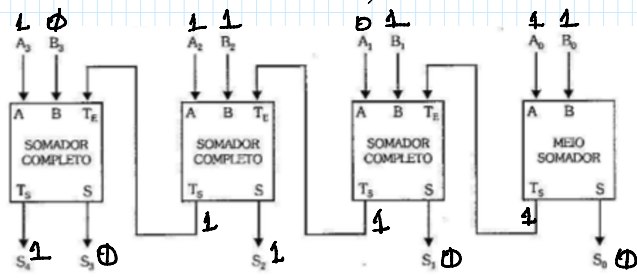


Figura 5.37



$$\begin{array}{r}
 1\ 1\ 1 \\
 1\ 1\ 0\ 1 \\
 +\ 0\ 1\ 1\ 1 \\
 \hline
 1\ 0\ 1\ 0\ 0
 \end{array}$$