

A	В	C	D	X=A*C"	Y=A'+B''	Z=A+B	H=(Y+D+Y)"	K=C'"Z)"	S=H+K
0	0	0	0	1	0	0	0	1	1
0	0	0	1	1	0	0	0	1	1
0	0	1	0	1	0	0	0	1	1
0	0	1	1	1	0	0	0	1	1
0	1	0	0	1	0	1	0	0	0
0	1	0	1	1	0	1	0	0	0
0	1	1	0	1	0	1	0	1	1
0	1	1	1	1	0	1	0	1	1
1	0	0	0	1	1	1	0	0	0
1	0	0	1	1	1	1	0	0	0
1	0	1	0	0	1	1	0	1	1
1	0	1	1	0	1	1	0	1	1
1	1	0	0	1	0	1	0	0	0
1	1	0	1	1	0	1	0	0	0
1	1	1	0	0	0	1	1	1	1
1	1	1	1	0	0	1	0	1	ī

 $S = \overline{(A.C)} + D + \overline{A} + \overline{B} + \overline{C}.(A + B)$

Questão 1 - b)

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

$$S = (W + K) + (\bar{B} \cdot C) + (\bar{A} + \bar{D})$$

$$S = ((\bar{A} \cdot D) + (\bar{B} + \bar{D})) + (\bar{B} \cdot C) + (\bar{A} + \bar{B})$$
Questão 2 - a)

A	В	C	D	W=(A'.B)	X=(B'.D)"	Y=(B'.C)	Z=(A.B')"	A=W+X	S=A+Y+Z
0	0	0	0	0	1	0	1	1	1
0	0	0	1	0	0	0	1	0	1
0	0	1	0	0	1	1	1	1	1
0	0	1	1	0	0	1	1	0	1
0	1	0	0	1	1	0	1	1	1
0	1	0	1	1	1	0	1	1	1
0	1	1	0	1	1	0	1	1	1
0	1	1	1	1	1	0	1	1	1
1	0	0	0	0	1	0	0	1	1
1	0	0	1	0	0	0	0	0	0
1	0	1	0	0	1	1	0	1	1
1	0	1	1	0	0	1	0	0	1
1	1	0	0	0	1	0	1	1	1
1	1	0	1	0	1	0	1	1	1
1	1	1	0	0	1	0	1	1	1
1	1	1	1	0	1	0	1	1	1

Questão 2 - b)