$(A + B) + C$ =R

A	B	C	R
1	1	1	1
1	1	0	1
1	0	1	1
1	0	0	1
0	1	1	1
0	1	0	1
0	0	1	1
0	0	0	0

$(AB) + (\overline{A}\ \overline{B}) = K$

A	B	K
1	1	1
1	0	0
0	1	0
0	0	1

$\overline{(AB)(CD)}$=U

A	B	C	D	U
1	1	1	1	0
1	1	1	0	1
1	1	0	1	1
1	1	0	0	1
1	0	1	1	0
1	0	1	0	1
1	0	0	1	1
1	0	0	0	1
0	1	1	1	0
0	1	1	0	1
0	1	0	1	1
0	1	0	0	1
0	0	1	1	1
0	0	1	0	1
0	0	0	1	1
0	0	0	0	1

$\overline{((\overline{\overline{AB}}A)((\overline{\overline{AB}}B)}$=Lo

A	B	L
1	1	0
1	0	1
0	1	1
0	0	0

$((CA)+(C\overline{A}))\overline{((\overline{DB})(\overline{D\overline{B}}))}$ =V

A	C	D	B	V
1	1	1	1	1
1	1	1	0	1
1	1	0	1	0
1	1	0	0	0
1	0	1	1	0
1	0	1	0	0
1	0	0	1	0
1	0	0	0	0
0	1	1	1	1
0	1	1	0	1
0	1	0	1	0
0	1	0	0	0
0	0	1	1	0
0	0	1	0	0
0	0	0	1	0
0	0	0	0	0

$((A + C)\overline{B}) + ((BA) + (C\overline{A}))$ =P

A	B	C	P
1	1	1	1
1	1	0	1
1	0	1	1
1	0	0	0
0	1	1	1
0	1	0	0
0	0	1	0
0	0	0	0

$A \oplus B \oplus C = S$

$\overline{\overline{((A \oplus B)C)}(\overline{AB})}$ = C

A	B	C_i	S	C_o
1	1	1	1	1
1	1	0	0	1
1	0	1	0	1
1	0	0	1	0
0	1	1	0	1
0	1	0	1	0
0	0	1	1	0
0	0	0	0	0