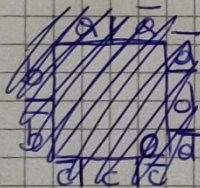


a)

d	c	b	a	y
0	0	0	0	1
0	0	0	1	0
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	1
0	1	1	0	0
0	1	1	1	0
1	0	0	0	1
1	0	0	1	0
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	0
1	1	1	1	0

$$y = (\overline{d}\overline{c}\overline{b}\overline{a}) \vee (\overline{d}\overline{c}\overline{b}a) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a}) \vee (\overline{d}\overline{c}b\overline{a})$$

b)



a	\overline{a}	\overline{d}
b	1	0
\overline{b}	1	0
b	0	1
\overline{b}	0	1
c	c	c

$$y = (\overline{c}\overline{a}\overline{b}) \vee (\overline{c}ab) \vee (c\overline{a}\overline{b})$$

