

Упрощение совершенной дизъюнктивной нормальной формы

Упростить совершенную дизъюнктивную нормальную форму.

Задача 13.1.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xyz$$

Задача 13.2.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.3.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xyz$$

Задача 13.4.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.5.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xy\bar{z}$$

Задача 13.6.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}y\bar{z} \vee x\bar{y}\bar{z} \vee xy\bar{z} \vee xyz$$

Задача 13.7.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xyz$$

Задача 13.8.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xy\bar{z} \vee xyz$$

Задача 13.9.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xyz$$

Задача 13.10.

8

$$\bar{x}y\bar{z} \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.11.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xyz$$

Задача 13.12.

8

$$\bar{x}yz \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.13.

8

$$\bar{x}yz \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xyz$$

Задача 13.14.

8

$$\bar{x}y\bar{z} \vee x\bar{y}\bar{z} \vee xy\bar{z} \vee xyz$$

Задача 13.15.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xyz$$

Задача 13.16.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee x\bar{y}z \vee xyz$$

Задача 13.17.

8

$$\bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xy\bar{z}$$

Задача 13.18.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.19.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee x\bar{y}z \vee xyz$$

Задача 13.20.

8

$$\bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xy\bar{z}$$

Задача 13.21.

8

$$\bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xy\bar{z}$$

Задача 13.22.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}yz \vee xy\bar{z} \vee xyz$$

Задача 13.23.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xyz$$

Задача 13.24.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}yz \vee x\bar{y}\bar{z} \vee xyz$$

Задача 13.25.

8

$$\bar{x}\bar{y}z \vee \bar{x}y\bar{z} \vee \bar{x}yz \vee xy\bar{z} \vee xyz$$

Задача 13.26.

8

$$\bar{x}\bar{y}z \vee \bar{x}yz \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.27.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}yz \vee xy\bar{z} \vee xyz$$

Задача 13.28.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}yz \vee x\bar{y}\bar{z} \vee xy\bar{z}$$

Задача 13.29.

8

$$\bar{x}\bar{y}z \vee \bar{x}\bar{y}\bar{z} \vee \bar{x}yz \vee xy\bar{z} \vee xyz$$

Задача 13.30.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee x\bar{y}z \vee xyz$$

Задача 13.31.

8

$$\bar{x}\bar{y}z \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.32.

8

$$\bar{x}\bar{y}\bar{z} \vee \bar{x}\bar{y}z \vee \bar{x}yz \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.33.

8

$$\bar{x}y\bar{z} \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Задача 13.34.

8

$$\bar{x}yz \vee x\bar{y}\bar{z} \vee x\bar{y}z \vee xy\bar{z} \vee xyz$$

Упрощение совершенной дизъюнктивной нормальной формы

1	$xz \vee \bar{y}$	1, 1, 0, 0, 1, 1, 0, 1
2	$\bar{x} \vee y \vee z$	1, 1, 1, 1, 0, 1, 1, 1
3	$\bar{z}\bar{y} \vee x$	1, 0, 0, 0, 1, 1, 1, 1
4	$\bar{x} \vee y \vee \bar{z}$	1, 1, 1, 1, 1, 0, 1, 1
5	$\bar{x}z \vee y\bar{z}$	0, 1, 1, 1, 0, 0, 1, 0
6	$xy \vee \bar{z}$	1, 0, 1, 0, 1, 0, 1, 1
7	$\bar{x}z \vee y$	0, 1, 1, 1, 0, 0, 1, 1
8	$xy \vee z$	0, 1, 0, 1, 0, 1, 1, 1
9	$\bar{x}\bar{z} \vee y$	1, 0, 1, 1, 0, 0, 1, 1
10	$\bar{z}y \vee x$	0, 0, 1, 0, 1, 1, 1, 1
11	$zy \vee \bar{x}$	1, 1, 1, 1, 0, 0, 0, 1
12	$zy \vee x$	0, 0, 0, 1, 1, 1, 1, 1
13	$x\bar{z} \vee yz$	0, 0, 0, 1, 1, 0, 1, 1
14	$xz \vee y\bar{z}$	0, 0, 1, 0, 0, 1, 1, 1
15	$zy \vee \bar{x}$	1, 1, 1, 1, 0, 0, 0, 1
16	$xz \vee \bar{y}\bar{z}$	1, 0, 0, 0, 1, 1, 0, 1
17	$\bar{x}z \vee y\bar{z}$	0, 1, 1, 1, 0, 0, 1, 0
18	$xy \vee \bar{y}\bar{z}$	1, 0, 0, 0, 1, 0, 1, 1
19	$xz \vee \bar{y}\bar{z}$	1, 0, 0, 0, 1, 1, 0, 1
20	$\bar{x}z \vee y\bar{z}$	0, 1, 1, 1, 0, 0, 1, 0
21	$\bar{x}z \vee y\bar{z}$	0, 1, 1, 1, 0, 0, 1, 0
22	$\bar{x}\bar{z} \vee y$	1, 0, 1, 1, 0, 0, 1, 1
23	$\bar{x} \vee \bar{y} \vee z$	1, 1, 1, 1, 1, 1, 0, 1
24	$\bar{x}\bar{y} \vee z$	1, 1, 0, 1, 0, 1, 0, 1
25	$\bar{x}z \vee y$	0, 1, 1, 1, 0, 0, 1, 1
26	$xy \vee z$	0, 1, 0, 1, 0, 1, 1, 1
27	$\bar{x}\bar{z} \vee y$	1, 0, 1, 1, 0, 0, 1, 1
28	$\bar{x}y \vee \bar{z}$	1, 0, 1, 1, 1, 0, 1, 0
29	$z\bar{y} \vee x$	0, 1, 0, 0, 1, 1, 1, 1
30	$\bar{x}\bar{y} \vee xz$	1, 1, 0, 0, 0, 1, 0, 1
31	$z\bar{y} \vee x$	0, 1, 0, 0, 1, 1, 1, 1
32	$x \vee \bar{y} \vee z$	1, 1, 0, 1, 1, 1, 1, 1
33	$xz \vee y\bar{z}$	0, 0, 1, 0, 0, 1, 1, 1
34	$zy \vee x$	0, 0, 0, 1, 1, 1, 1, 1