

## Упрощение совершенной дизъюнктивной нормальной формы

Упростить совершенную дизъюнктивную нормальную форму.

**Задача 13.1.**

9

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

**Задача 13.2.**

9

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

**Задача 13.3.**

9

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

**Задача 13.4.**

9

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

**Задача 13.5.**

9

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

**Задача 13.6.**

9

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

**Задача 13.7.**

9

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

**Задача 13.8.**

9

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

**Задача 13.9.**

9

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

**Задача 13.10.**

9

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

**Задача 13.11.**

9

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

**Задача 13.12.**

9

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

**Задача 13.13.**

9

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

**Задача 13.14.**

9

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

**Задача 13.15.**

9

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

**Задача 13.16.**

9

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

**Задача 13.17.**

9

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

**Задача 13.18.**

9

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

**Задача 13.19.**

9

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

**Задача 13.20.**

9

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

**Задача 13.21.**

9

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

**Задача 13.22.**

9

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

**Задача 13.23.**

9

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

**Задача 13.24.**

9

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

**Задача 13.25.**

9

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

**Задача 13.26.**

9

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

**Задача 13.27.**

9

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

**Задача 13.28.**

9

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

**Задача 13.29.**

9

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

**Задача 13.30.**

9

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

**Задача 13.31.**

9

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

**Задача 13.32.**

9

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

**Задача 13.33.**

9

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

**Задача 13.34.**

9

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

### Упрощение совершенной дизъюнктивной нормальной формы

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