

Rješenja zadataka

1. $C = \overline{A \cdot B} + A$

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

2. $C = A + \overline{B} + \overline{B} \cdot A$

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

3. $C = \overline{(A + B)} \cdot (A \cdot \overline{B})$

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

4. $W = \overline{X + Y} \cdot Y \cdot \overline{Z}$

X	Y	Z	W
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

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

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

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

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

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

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

$$8. D = \overline{\overline{A \cdot (\overline{B} + C)} + B \cdot (A \cdot C + B)}$$

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

$$9. D = \overline{\overline{(A \cdot B + \overline{A} \cdot \overline{C}) \cdot \overline{B}} + C + \overline{A} \cdot \overline{B}} + C$$

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

$$10. W = \overline{X} \cdot (X + \overline{Y}) + \overline{Y} \cdot (\overline{Y} + \overline{Z}) + \overline{Y}$$

X	Y	Z	W
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	0

$$11. C = \overline{\overline{A + \overline{B} \cdot \overline{B}}}$$

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

$$12. C = (A + B) \cdot \overline{\overline{A + A \cdot \overline{B}}}$$

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

$$13. D = \overline{\overline{A + \overline{B} \cdot C + \overline{B} \cdot \overline{C}}}$$

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

$$14. D = \overline{\overline{A + B + \overline{C} \cdot C}} + A \cdot B + C$$

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

$$15. C = A + \bar{A} \cdot B$$

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

$$16. C = \overline{A + \bar{B} \cdot \bar{B}}$$

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

$$17. D = \overline{A \cdot \bar{B} + B \cdot C + \bar{A} \cdot (B \cdot \bar{C} + \bar{A})}$$

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

$$18. C = \bar{A} \cdot \bar{B} \cdot \bar{B} \cdot (\bar{1} \cdot B)$$

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