

Таблица истинности:

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

$$C D F D : (\bar{A} \cdot \bar{B} \cdot \bar{C} \cdot \bar{D}) + (\bar{A} \cdot \bar{B} \cdot \bar{C} \cdot D) + (\bar{A} \cdot \bar{B} \cdot C \cdot \bar{D}) + (\bar{A} \cdot \bar{B} \cdot C \cdot D) + (\bar{A} \cdot B \cdot \bar{C} \cdot \bar{D}) + (\bar{A} \cdot B \cdot \bar{C} \cdot D) + (\bar{A} \cdot B \cdot C \cdot \bar{D}) + (\bar{A} \cdot B \cdot C \cdot D) + (A \cdot \bar{B} \cdot \bar{C} \cdot \bar{D}) + (A \cdot \bar{B} \cdot \bar{C} \cdot D) + (A \cdot \bar{B} \cdot C \cdot \bar{D}) + (A \cdot \bar{B} \cdot C \cdot D) + (A \cdot B \cdot \bar{C} \cdot \bar{D}) + (A \cdot B \cdot \bar{C} \cdot D) + (A \cdot B \cdot C \cdot \bar{D}) + (A \cdot B \cdot C \cdot D) = 1$$

$$C D F D : (A+B+C+D) \cdot (A+B+\bar{C}+D) \cdot (A+B+\bar{C}+\bar{D}) \cdot (A+B+C+\bar{D}) \cdot (\bar{A}+\bar{B}+\bar{C}+D) = 0$$

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~~4)  $BCD + AC + A\bar{B}D$~~

$$5) \bar{A}BCD + \bar{A}C\bar{D} + \bar{B}CD \\ \bar{A}\bar{B}C\bar{D} + A\bar{C}D + B\bar{C}D$$

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

$$\overbrace{BCD}^{F_1} + \overbrace{AC}^{F_2} + \overbrace{ABD}^{F_3}$$

Убери С.С. 6871

A	B	C	D	F <sub>1</sub>	F <sub>2</sub>	<del>F<sub>3</sub></del>	Σ
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0
0	0	1	0	0	0	0	0
0	0	1	1	0	0	0	0
0	1	0	0	0	0	0	0
0	1	0	1	0	0	0	0
0	1	1	0	0	0	0	0
0	1	1	1	1	0	0	1
1	0	0	0	0	0	0	0
1	0	0	1	0	0	0	0
1	0	1	0	0	1	0	1
1	0	1	1	0	1	0	1
1	1	0	0	0	0	0	0
1	1	0	1	0	0	1	1
1	1	1	0	0	1	0	1
1	1	1	1	1	1	1	1

$$2 \text{ База } F_1 \quad F_2 \quad F_3$$

$$\overline{A}C + B\overline{A}\overline{C}D + B\overline{C}\overline{D}\overline{A}$$

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10-тистове числа

	A	B	C	D	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>	E
0	0	0	0	0	0	0	0	0
1	1	0	0	0	0	0	0	0
2	0	1	0	0	0	0	0	0
3	0	0	1	0	1	0	0	0
4	0	0	0	1	0	0	0	0
5	1	1	0	0	0	0	0	1
6	1	0	1	0	0	0	0	0
7	1	0	0	1	0	0	0	0
8	0	1	1	0	1	0	0	1
9	0	1	0	1	0	0	1	1
10	0	0	1	1	0	0	0	0
11	1	1	1	0	0	0	0	0
12	1	1	1	1	0	0	0	0
13	1	1	0	1	0	0	0	0
14	1	1	1	1	0	0	0	0
15	1	1	1	1	0	0	0	0

$$3) \bar{A} B \bar{C} D + A \bar{B} C + \bar{A} B C$$

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A	B	C	D
0	0	0	0
1	0	0	0
0	1	0	0
0	0	1	0
0	0	0	1
1	1	0	0
1	0	1	0
<del>1</del>	<del>0</del>	<del>0</del>	<del>0</del>
<del>0</del>	<del>0</del>	<del>1</del>	<del>1</del>
1	0	1	1
0	1	1	1
1	1	0	1
<del>0</del>	1	1	0
1	1	1	1

$$1) \overline{B}C\overline{D} + A\overline{C} + A\overline{B}D \quad \text{таблица истинности}$$

$$2) \overline{A}C + BA\overline{C}\overline{D} + B\overline{D}A$$

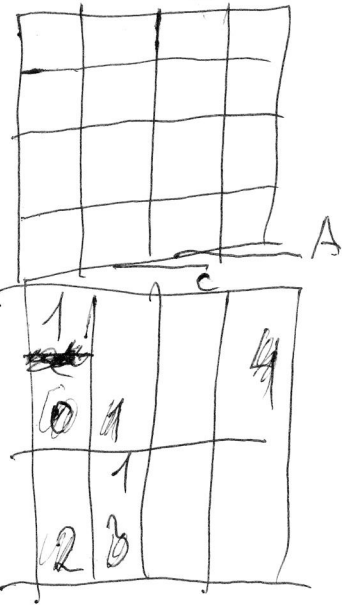
$$3) \overline{A}B\overline{C}D + A\overline{B}C + A\overline{B}C$$

$$4) \overline{A}B\overline{C}D + \overline{A}C\overline{D} + \overline{B}C\overline{D} + \overline{B}C\overline{D} \quad \text{Вопрос 4}$$

A	B	C	D	$\overline{A}\overline{B}\overline{C}\overline{D}$
0	0	0	0	1
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0

до	A	B	C	F
0	0	0	0	1
1	0	0	1	0
2	0	1	0	0
3	0	1	1	1
4	1	0	0	1

Квадрат или выражение



1111

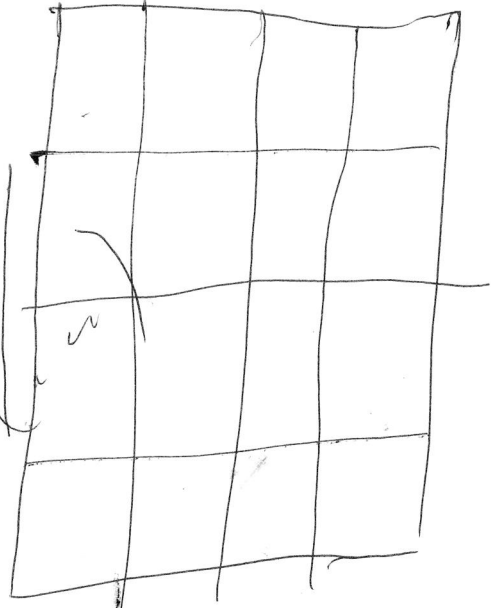
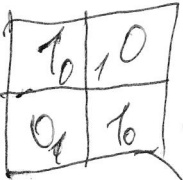
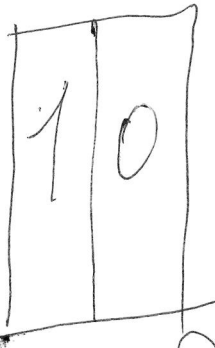
$$\overline{A}B\overline{C}D$$

B



1

Алгоритм 6871



$$(A+B+C)F$$

сумма  $\neq$  конъюнкция  
(сумма) (умножен.)  
3 транспонированных

Таблица истинности

III В. 3)  $\bar{A}BCD + A\bar{B}C + \bar{A}BC$  3-транспонированная  
двоичный шифр

алгебраическая зависимость  
исходной функции

C B

~~| Де<br>таля | A | B | C | F <sub>1</sub> | F <sub>2</sub> | F <sub>3</sub> |
|------------|---|---|---|----------------|----------------|----------------|
|            |   |   |   |                |                |                |
|            |   |   |   |                |                |                |
|            |   |   |   |                |                |                |
|            |   |   |   |                |                |                |
|            |   |   |   |                |                |                |
|            |   |   |   |                |                |                |
|            |   |   |   |                |                |                |~~

A |


Де таля	A	B	C	D	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>

Какая  
ручка/перо

Допуск

Временное А.А.

68 71