Практическая работа $N_{2}5$

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Дана функция (ДНФ):

$$F = AB\overline{C}\overline{D} + \overline{A}BC + \overline{D}$$

					CD
	AB/CD	00	01	10	11
	00	1 0	0 1	0 2	1 3
	01	1 4	0 5	1 6	1 7
$_{\mathrm{AB}}^{\downarrow}$	10	1 8	0 9	0	1
AD	11	1 12	0	0	1 15

	$N_{\overline{0}}$	A	В	С	D	$AB\overline{CD}$	$\overline{A}BC$	F
	0	0	0	0	0	0	0	1
	1	0	0	0	1	0	0	0
	2	0	0	1	0	0	0	1
	3	0	0	1	1	0	0	0
	4	0	1	0	0	0	0	1
	5	0	1	0	1	0	0	0
	6	0	1	1	0	0	1	1
	7	0	1	1	1	0	1	1
	8	1	0	0	0	0	0	1
	9	1	0	0	1	0	0	0
	10	1	0	1	0	0	0	1
	11	1	0	1	1	0	0	0
	12	1	1	0	0	1	0	1
	13	1	1	0	1	0	0	0
	14	1	1	1	0	0	0	1
L	15	1	1	1	1	0	0	0

 $\begin{array}{c} {\rm CKH}\Phi \ {\rm F}{\rm =} \ ({\rm A}{\lor}B{\lor}C{\lor}\bar{D}) \wedge (A{\lor}B{\lor}\bar{C}{\lor}\bar{D}) \wedge (A{\lor}\bar{B}{\lor}C{\lor}\bar{D}) \wedge (\bar{A}{\lor}B{\lor}C{\lor}\bar{D}) \wedge (\bar{A}{\lor}B{\lor}C{\lor}\bar{D}) \wedge (\bar{A}{\lor}B{\lor}C{\lor}\bar{D}) \wedge (\bar{A}{\lor}B{\lor}C{\lor}\bar{D}) \wedge (\bar{A}{\lor}B{\lor}\bar{C}{\lor}\bar{D}) \\ {\rm C}{\Box}{\rm H}\Phi \ {\rm F}{\rm =} \ (\bar{A}{\land}\bar{B}{\land}\bar{C}{\land}\bar{D}){\lor}(\bar{A}{\land}\bar{B}{\land}C{\land}\bar{D}){\lor}(\bar{A}{\land}B{\land}\bar{C}{\land}\bar{D}){\lor}(\bar{A}{\land}B{\land}C{\land}\bar{D}){\lor}(\bar{A}{\land}B{\land}C{\land}\bar{D}){\lor}(\bar{A}{\land}B{\land}C{\land}\bar{D}){\lor}(\bar{A}{\land}B{\land}C{\land}\bar{D}) \vee (\bar{A}{\land}B{\land}C{\land}\bar{D}){\lor}(\bar{A}{\land}B{\land}C{\land}\bar{D}) \\ (\bar{A}{\land}B{\land}C{\land}\bar{D}){\lor}(\bar{A}{\land}\bar{B}{\land}\bar{C}{\land}\bar{D}){\lor}(\bar{A}{\land}B{\land}\bar{C}{\land}\bar{D}){\lor}(\bar{A}{\land}B{\land}\bar{C}{\land}\bar{D}) \\ \end{array}$