СДНФ функции:
$F = \bar{A}\bar{B}C\bar{D} + \bar{A}\bar{B}CD + \bar{A}B\bar{C}D + \bar{A}BC\bar{D} + \bar{A}BCD + AB\bar{C}\bar{D}$

СКНФ функции:
$F = (\bar{A} + \bar{B} + \bar{C} + \bar{D})(\bar{A} + \bar{B} + \bar{C} + D)(\bar{A} + B + \bar{C} + \bar{D})(A + \bar{B} + \bar{C} + \bar{D})(A + \bar{B} + \bar{C} + D)(A + \bar{B} + C + \bar{D})(A + \bar{B} + C + D)(A + B + \bar{C} + D)(A + B + C + \bar{D})(A + B + C + D)$

Таблица 1: Практическая работа №5: Таблица истинности для $\bar{A}C + BA\bar{C}\bar{D} + BD\bar{A}$

Аргументы				Логические операции									
				Отрицание			Конъюнкция					Дизъюнкция	
A	B	C	D	$\bar{A}$	$\bar{C}$	$\bar{D}$	$\bar{A} \wedge C$	B$\wedge A$	(B$\wedge A$) $\wedge \bar{C}$	((B$\wedge A$) $\wedge \bar{C}$) $\wedge \bar{D}$	B$\wedge D$	(B$\wedge D$) $\wedge \bar{A}$	$(\bar{A} \wedge C) \vee (B \wedge A \wedge \bar{C} \wedge \bar{D}$	Полное выражение
0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
0	0	1	0	1	0	1	1	0	0	0	0	0	1	1
0	0	1	1	1	0	0	1	0	0	0	0	0	1	1
0	1	0	0	1	1	1	0	0	0	0	0	0	0	0
0	1	0	1	1	1	0	0	0	0	0	1	1	1	1
0	1	1	0	1	0	1	1	0	0	0	0	0	0	0
0	1	1	1	1	0	0	1	0	0	0	1	1	1	1
1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
1	0	0	1	0	1	0	0	0	0	0	0	0	0	0
1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1	1	0	0	0	1	1	1	1	1	1	0	0	1	1
1	1	0	1	0	1	0	0	1	0	0	1	0	0	0
1	1	1	0	0	0	1	0	1	0	0	0	0	0	0
1	1	1	1	0	0	0	0	1	0	0	1	0	0	0

Таблица 2: Практическая работа №5: Карта Карно для $\bar{A}C + BA\bar{C}\bar{D} + BD\bar{A}$

AB \ CD	00	01	10	11
00	0	0	1	1
01	0	1	1	1
10	0	0	0	0
11	1	0	0	0