МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РОССИЙСКОЙ ФЕДЕРАЦИИ

Федеральное государственное бюджетное образовательное учреждение

высшего образования

«Вятский государственный университет»

Факультет автоматики и вычислительной техники

Кафедра электронных вычислительных машин

Отчет по контрольной работе №1 по дисциплине

«Арифметико-логические основы вычислительной техники»

Выполнил студент группы ИВТб-1302-04-00 \_\_\_\_\_\_\_\_\_\_\_\_\_\_/Крючков И. С.

Проверил преподаватель   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/Мельцов В. Ю.

Киров 2021

**Задание:**

Составить свою таблицу истинности. Преобразовать её в полное уравнение. Минимизировать полное уравнение с помощью карты Карно.

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| Таблица истинности:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | X3 | X2 | X1 | X0 | F | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 1 | 1 | | 0 | 0 | 1 | 0 | 1 | | 0 | 0 | 1 | 1 | 0 | | 0 | 1 | 0 | 0 | 1 | | 0 | 1 | 0 | 1 | 1 | | 0 | 1 | 1 | 0 | 1 | | 0 | 1 | 1 | 1 | 0 | | 1 | 0 | 0 | 0 | 0 | | 1 | 0 | 0 | 1 | 0 | | 1 | 0 | 1 | 0 | 1 | | 1 | 0 | 1 | 1 | 0 | | 1 | 1 | 0 | 0 | 1 | | 1 | 1 | 0 | 1 | 0 | | 1 | 1 | 1 | 0 | 1 | | 1 | 1 | 1 | 1 | 1 | | Полное уравнение:    Карта Карно   |  |  |  |  |  | | --- | --- | --- | --- | --- | | x0x1\x2x3 | 00 | 01 | 11 | 10 | | 00 | 0 | 0 | 1 | 1 | | 01 | 1 | 1 | 1 | 1 | | 11 | 0 | 0 | 1 | 0 | | 10 | 1 | 0 | 0 | 1 |   Минимизированное уравнение: |