

Class Exercise—Quine-McClusky and Petrick's Method

10/19/15

Consider the following Boolean function: $f(w, x, y, z) = \sum m(4, 5, 7, 12, 14, 15)$

1. Use Quine-McCluskey to obtain all the prime implicants for f .

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2. Given the prime implicants of f from Problem #1, use Petrick's method to determine all the irredundant disjunctive normal formulas for f . Indicate which expressions are minimal sums.