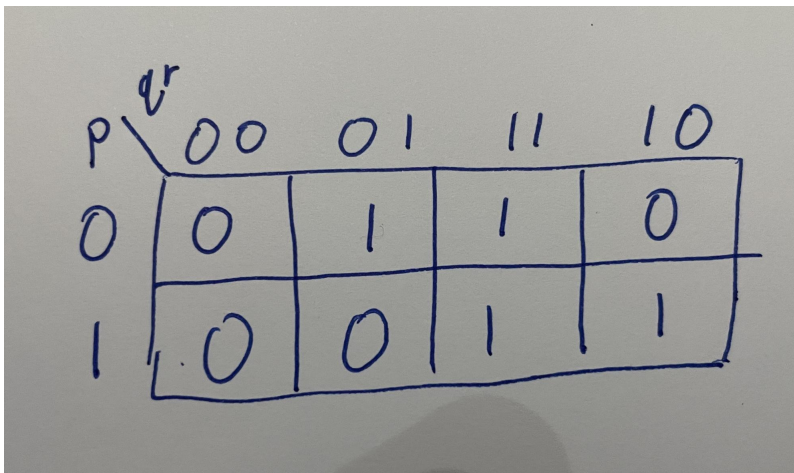


ECE M16 Homework 2

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HW1 Problem 4 part b



A handwritten truth table for a 2-input function. The inputs are labeled p and q^r . The table has 4 columns for the input combinations (00, 01, 11, 10) and 2 rows for the output values (0 and 1). The output values are written in the cells of the table.

$p \backslash q^r$	00	01	11	10
0	0	1	1	0
1	0	0	1	1

HW1 Problem 7

(a)

Month	m3	m2	m1	m0	output
1	0	0	0	1	1
2	0	0	1	0	0
3	0	0	1	1	1
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	0
7	0	1	1	1	1
8	1	0	0	0	1
9	1	0	0	1	0
10	1	0	1	0	1
11	1	0	1	1	0
12	1	1	0	0	1

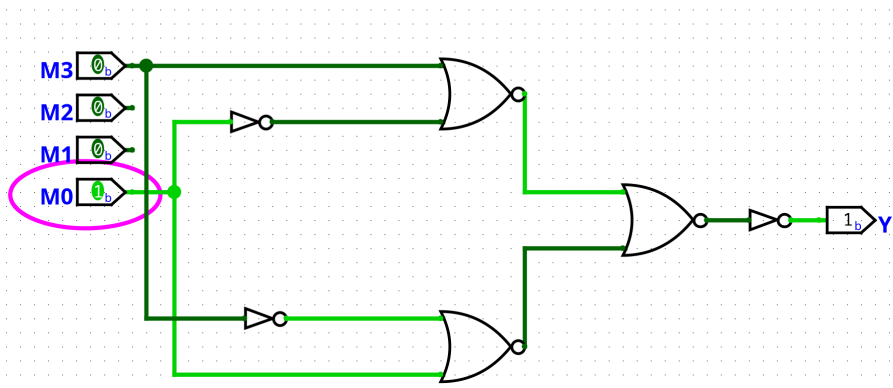
(b)

$m_1 m_0$	$m_3 m_2$	00	01	11	10
00	1	0	1	1	0
01	1	1	1	0	0
11	1	1	1	0	1
10	0	0			

Therefore the equation is:

$$m_0 \cdot \overline{m_3} + \overline{m_0} \cdot m_3$$

(c)



HW 2 Problem 1