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Prelim 2

1. $f(w, x, y, z) = \sum m(0, 1, 4, 5, 8, 9, 10, 11, 13)$

$w \backslash yz$	00	01	11	10
00	0 1	4 1	12 0	8 1
01	1 1	5 1	13 1	9 1
11	3 0	7 0	15 0	11 1
10	2 0	6 0	14 0	10 1

①

0000	(0)
0001	(1)
0100	(4)
0101	(5)

↓ ↓
 \bar{w} \bar{y}

②

1000	(8)
1001	(9)
1011	(11)
1010	(10)

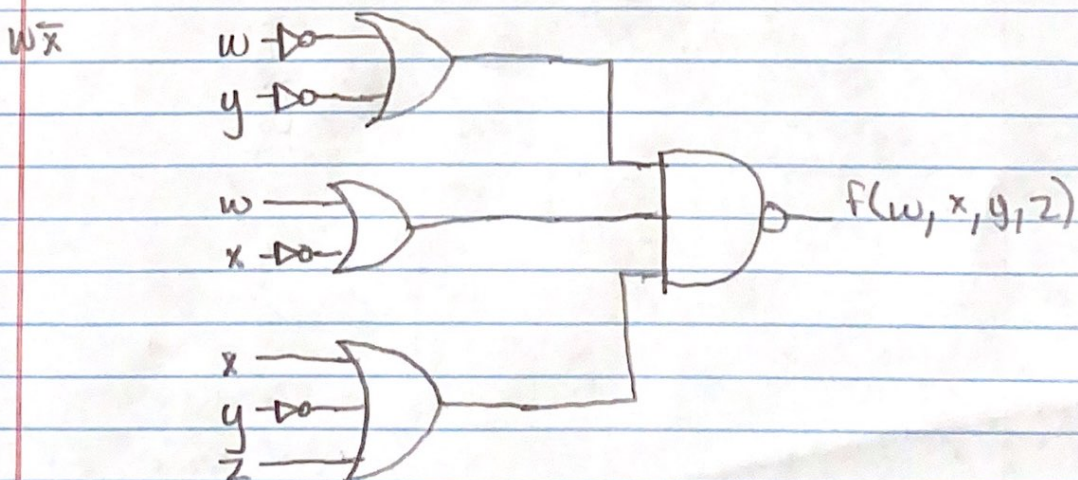
↓
 $w\bar{x}$

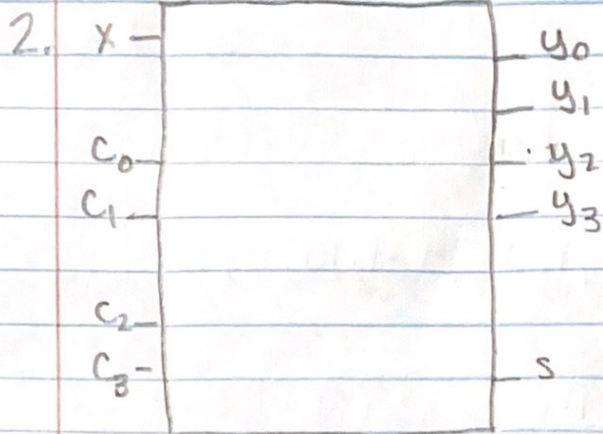
③

0101	(5)
1101	(13)

↓ ↓
 $x\bar{y}z$

$= \bar{w}\bar{y} + w\bar{x} + x\bar{y}z$





x



c_0	c_1	c_2	c_3	c_j
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0

3.

$A_0 A_1$	$B_0 B_1$	C_2	S_1	S_0
0 0	0 0	0	0	0
0 0	0 1	0	0	1
0 0	1 0	0	1	0
0 0	1 1	0	1	1
0 1	0 0	0	0	1
0 1	0 1	1	1	0
0 1	1 0	0	1	1
0 1	1 1	1	1	0
1 0	0 0	0	1	0
1 0	0 1	0	1	1
1 0	1 0	1	1	0
1 0	1 1	1	1	0

