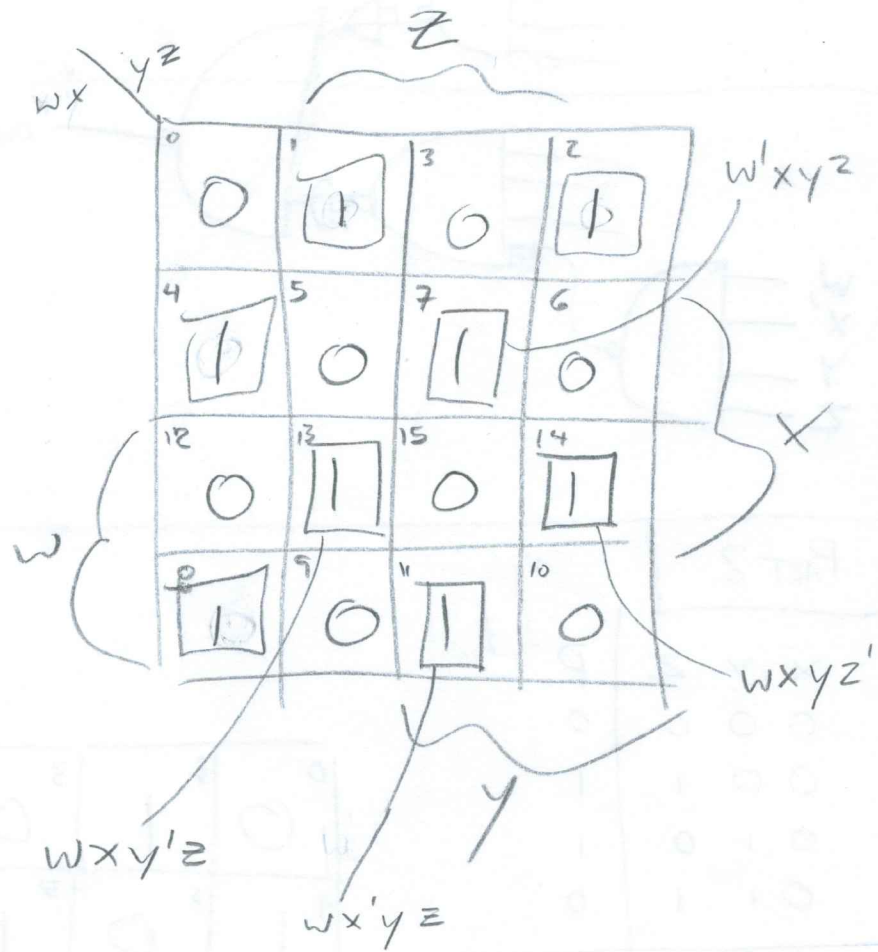


7420 or 7440
are good
NAND gates

MASON THRALL
CSCI 1510-001
LAB 3

PART 1

W	X	Y	Z	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	0
0	1	1	0	0
0	1	1	1	1
1	0	0	0	1
1	0	0	1	0
1	0	1	0	0
1	0	1	1	1
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	0



$$\Sigma(1, 2, 4, 7, 8, 11, 13, 14)$$

$$\begin{aligned}
 &w'x'y'z + w'x'yz' + w'xy'z' + w'xyz \\
 &wxy'z + wxyz' + wx'y'z' + wx'yz
 \end{aligned}$$