Group Homework 7

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1. f(wxyz) = $\sum_m(8, 9, 10, 13, 15) + \sum_\delta(0, 4, 6, 12, 14)$ = WY' + WXY + WYZ'

WX \ YZ	00	01	11	10
00	-	0	0	0
01	-	0	0	-
11	-	1	1	-
10	1	1	0	1

2. f(wxyz) = $\sum_m(5, 9, 14, 15) + \sum_\delta(0, 1, 7, 8, 11 - 13)$ = WX + Y'Z

WX \ YZ	00	01	11	10
00	-	-	0	0
01	0	1	-	0
11	-	-	1	1
10	-	1	-	0

3. f(wxyz) = $\sum_m(0,3,7,11,13) + \sum_\delta(2,4,6,12)$ = W'Y + W'Z + WXY' + X'YZ

WX \ YZ	00	01	11	10
00	1	0	1	-
01	-	0	1	-
11	-	1	0	0
10	0	0	1	0

4. f(wxyz) = $\sum_m(2,8,9,10-12) + \sum_\delta(3,6,13-15)$ = W + YZ'

WX \ YZ	00	01	11	10
00	0	0	-	1
01	0	0	0	-
11	1	-	-	-
10	1	1	1	1