

Group Homework 7

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

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

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

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

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

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

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

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