

1-) $x = \sum m(1, 2, 4, 5, 7, 8, 9, 10, 12, 14) + d(0, 15)$

$$x = \bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{b}c\bar{d} + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d$$

$y = \sum m(0, 1, 2, 4, 6, 11, 14) + d(3, 9, 12, 13)$

$$y = \bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{b}\bar{c}d + \bar{a}\bar{b}c\bar{d} + \bar{a}\bar{b}cd + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d$$

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2-)

x

cd \ ab	00	01	11	10
00	1	1	0	1
01	1	1	1	0
11	1	0	x	1
10	1	x	0	1

$$x = \bar{a}\bar{d} + \bar{a}\bar{c} + \bar{b}\bar{c} + b\bar{c} + c\bar{b}d$$

y

cd \ ab	00	01	11	10
00	1	1	x	1
01	1	0	0	1
11	0	x	0	1
10	0	x	1	1

$$y = \bar{c}\bar{d} + \bar{b}d + c\bar{d}$$

3-)

