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

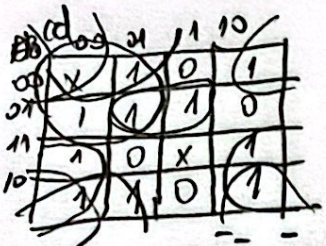
$x = \bar{a}\bar{b}c\bar{d} + \bar{a}\bar{b}cd + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}bcd + ab\bar{c}\bar{d} + ab\bar{c}d$
$+ a\bar{b}c\bar{d} + ab\bar{c}\bar{d} + abc\bar{d} + \bar{a}\bar{b}\bar{c}\bar{d} + abcd$

$y = \Sigma m(0,1,2,4,6,11,14) + d(3,9,10,13)$

$\bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{b}\bar{c}d + \bar{a}\bar{b}cd + \bar{a}b\bar{c}\bar{d} + \bar{a}bcd + cb\bar{c}d + abc\bar{d} + \bar{a}\bar{b}cd + a\bar{b}\bar{c}d$
$+ a\bar{b}cd + ab\bar{c}d$

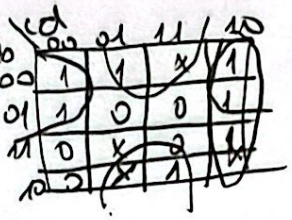
2-)

x



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

y



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

3-)