5/2/22, 1:24 AM _____A-B-C-D_____m_9-10____d_0-8-12-13____option-0____899798975570893289720

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SUM of PRODUCTS

Map

	$\overline{\mathrm{C.D}}$	$\overline{\mathrm{C}}.\mathrm{D}$	C.D	$C.\overline{D}$
$\overline{A}.\overline{B}$	X	0	0	0
\overline{A} .B	0	0	0	0
A.B	X	X	0	0
$A.\overline{B}$	X	1	0	1

Map Layout

	$\overline{\mathrm{C}}.\overline{\mathrm{D}}$	$\overline{\mathrm{C}}.\mathrm{D}$	C.D	$C.\overline{D}$
$\overline{A}.\overline{B}$	0	1	3	2
$\overline{\mathbf{A}}.\mathbf{B}$	4	5	7	6
A.B	12	13	15	14
$A.\overline{B}$	8	9	11	10

Groups

(8,9,12,13)	$A.\overline{C}$	
(8,10)	$A.\overline{B}.\overline{D}$	

$$y = AC' + AB'D'$$

$$\overline{A}$$
 \overline{B} \overline{B} \overline{C} \overline{C} \overline{D}

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 \overline{A} \overline{B} \overline{B} \overline{C} \overline{C} \overline{D}

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Truth Table

	A	В	C	D	Y
0	0	0	0	0	X
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	0
4	0	1	0	0	0
5	0	1	0	1	0
6	0	1	1	0	0
7	0	1	1	1	0
8	1	0	0	0	X
9	1	0	0	1	1
10	1	0	1	0	1
11	1	0	1	1	0
12	1	1	0	0	X
13	1	1	0	1	X
14	1	1	1	0	0
15	1	1	1	1	0

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