5/1/22, 7:36 PM _____A-B-C-D_____m_5-7-8____d_0-9-10-11-13____option-0____989781875872882386684

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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	1	1	0
A.B	0	X	0	0
$A.\overline{B}$	1	\mathbf{X}	\mathbf{X}	X

Map Layout

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

Groups

(8,9,10,11)	$A.\overline{B}$	
(5,7)	\overline{A} .B.D	

$$y = AB' + A'BD$$

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

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

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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	1
6	0	1	1	0	0
7	0	1	1	1	1
8	1	0	0	0	1
9	1	0	0	1	X
10	1	0	1	0	X
11	1	0	1	1	X
12	1	1	0	0	0
13	1	1	0	1	X
14	1	1	1	0	0
15	1	1	1	1	0

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