5/2/22, 12:48 AM _____A-B-C-D_____m_11-13____d_0-9-12____option-0____999781965471840298689

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

Map Layout

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

Groups

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

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

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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	0
9	1	0	0	1	X
10	1	0	1	0	0
11	1	0	1	1	1
12	1	1	0	0	X
13	1	1	0	1	1
14	1	1	1	0	0
15	1	1	1	1	0

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