5/2/22, 12:40 AM _____A-B-C-D_____m_0-5-7-8-9-10-11-12-13_____option-0____999782866571824592723

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SUM of PRODUCTS

Map

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

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

(8,9,10,11)	$A.\overline{B}$
(8,9,12,13)	$A.\overline{C}$
(0,8)	$\overline{B}.\overline{C}.\overline{D}$
(5,7)	\overline{A} .B.D

$$y = AB' + AC' + B'C'D' + A'BD$$

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

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

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

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

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