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**SUM of PRODUCTS****Map**

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

**Map Layout**

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

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

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	B	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	x
7	0	1	1	1	0
8	1	0	0	0	1
9	1	0	0	1	x
10	1	0	1	0	x
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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