

SUM of PRODUCTS

Map

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

Map Layout

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

Groups

$y = 0$
 $y = 1$

Truth Table

	A	B	C	D	Y
0	0	0	0	0	x
1	0	0	0	1	x
2	0	0	1	0	x
3	0	0	1	1	x
4	0	1	0	0	x
5	0	1	0	1	x
6	0	1	1	0	x
7	0	1	1	1	x

8	1	0	0	0	x
9	1	0	0	1	x
10	1	0	1	0	x
11	1	0	1	1	x
12	1	1	0	0	x
13	1	1	0	1	x
14	1	1	1	0	x
15	1	1	1	1	x

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