

PRODUCT of SUMS

Map

	$\overline{C}. \overline{D}$	$\overline{C}.D$	$C.D$	$C. \overline{D}$
$\overline{A}.\overline{B}$	0	x	x	x
$\overline{A}.B$	0	1	1	1
$A.B$	1	1	1	1
$A. \overline{B}$	1	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
$A.B$	12	13	15	14
$A. \overline{B}$	8	9	11	10

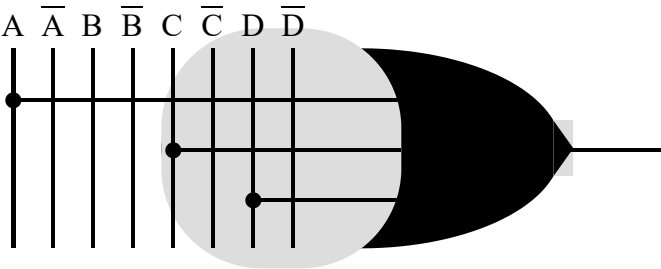
Groups

(0,4)	$\overline{A}.\overline{C}.\overline{D}$
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$\overline{y} = \overline{A}.\overline{C}.\overline{D}$

$\overline{\overline{y}} = \overline{\overline{A}.\overline{C}.\overline{D}}$

$y = (A + C + D)$



Truth Table

	A	B	C	D	Y
0	0	0	0	0	0
1	0	0	0	1	x
2	0	0	1	0	x
3	0	0	1	1	x
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	1
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	1
13	1	1	0	1	1
14	1	1	1	0	1
15	1	1	1	1	1

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