www.32x8.com

SUM of PRODUCTS

Map

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

Groups

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

y = AC'

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

www.
32x8
.com

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	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	x
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	x
14	1	1	1	0	0
15	1	1	1	1	x