5/2/22, 12:45 AM \_\_\_\_\_A-B-C-D\_\_\_\_\_d\_5-7-12-13\_\_\_\_option-0\_\_\_\_899788966270855884694

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# **SUM of PRODUCTS**

## Map

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

## **Map Layout**

	$\overline{\mathrm{C}}.\overline{\mathrm{D}}$	$\overline{\mathrm{C}}.\mathrm{D}$	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

$$y = 0$$

### **Truth Table**

	A	В	C	D	Y
0	0	0	0	0	0
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	X
6	0	1	1	0	0
7	0	1	1	1	X

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8	1	0	0	0	0
9	1	0	0	1	0
10	1	0	1	0	0
11	1	0	1	1	0
12	1	1	0	0	X
12	1	1	U	U	Λ
13	1	1	0	1	X
	1	1 1		_	

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