

SUM of PRODUCTS

Map

	$\overline{D}\overline{E}\overline{F}$	$\overline{D}\overline{E}F$	$\overline{D}EF$	$\overline{D}E\overline{F}$	$D\overline{E}\overline{F}$	$D\overline{E}F$	DEF	$DE\overline{F}$
$\overline{A}\overline{B}\overline{C}$	x	x	x	x	x	x	x	x
$\overline{A}\overline{B}C$	x	x	x	x	x	x	1	x
$\overline{A}B\overline{C}$	x	x	x	x	x	x	x	x
$\overline{A}BC$	x	x	x	x	x	x	x	x
$A\overline{B}\overline{C}$	1	1	1	x	1	1	x	x
$A\overline{B}C$	0	0	0	x	x	x	x	x
$AB\overline{C}$	x	x	x	x	x	x	x	x
ABC	x	x	x	x	x	x	x	x

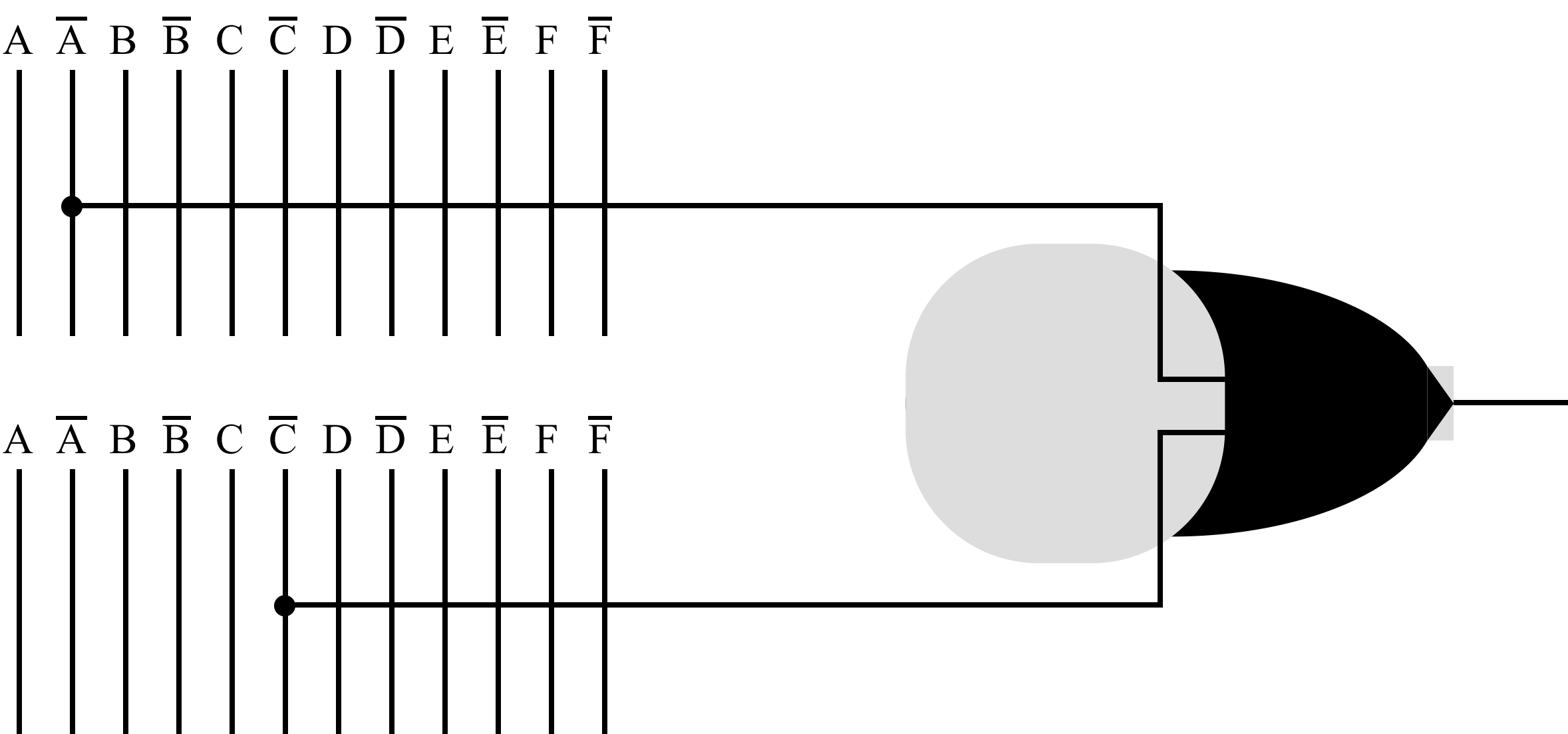
Map Layout

	$\overline{D}\overline{E}\overline{F}$	$\overline{D}\overline{E}F$	$\overline{D}EF$	$\overline{D}E\overline{F}$	$D\overline{E}\overline{F}$	$D\overline{E}F$	DEF	$DE\overline{F}$
$\overline{A}\overline{B}\overline{C}$	0	1	3	2	4	5	7	6
$\overline{A}\overline{B}C$	8	9	11	10	12	13	15	14
$\overline{A}B\overline{C}$	24	25	27	26	28	29	31	30
$\overline{A}BC$	16	17	19	18	20	21	23	22
$A\overline{B}\overline{C}$	32	33	35	34	36	37	39	38
$A\overline{B}C$	40	41	43	42	44	45	47	46
$AB\overline{C}$	56	57	59	58	60	61	63	62
ABC	48	49	51	50	52	53	55	54

Groups

(0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31)	\overline{A}
(0,1,2,3,4,5,6,7,16,17,18,19,20,21,22,23,32,33,34,35,36,37,38,39,48,49,50,51,52,53,54,55)	\overline{C}

y = A' + C'



Truth Table

	A	B	C	D	E	F	Y
0	0	0	0	0	0	0	x
1	0	0	0	0	0	1	x
2	0	0	0	0	1	0	x
3	0	0	0	0	1	1	x
4	0	0	0	1	0	0	x
5	0	0	0	1	0	1	x
6	0	0	0	1	1	0	x
7	0	0	0	1	1	1	x
8	0	0	1	0	0	0	x
9	0	0	1	0	0	1	x
10	0	0	1	0	1	0	x
11	0	0	1	0	1	1	x
12	0	0	1	1	0	0	x
13	0	0	1	1	0	1	x
14	0	0	1	1	1	0	x
15	0	0	1	1	1	1	1
16	0	1	0	0	0	0	x
17	0	1	0	0	0	1	x
18	0	1	0	0	1	0	x
19	0	1	0	0	1	1	x
20	0	1	0	1	0	0	x
21	0	1	0	1	0	1	x
22	0	1	0	1	1	0	x
23	0	1	0	1	1	1	x
24	0	1	1	0	0	0	x
25	0	1	1	0	0	1	x
26	0	1	1	0	1	0	x
27	0	1	1	0	1	1	x
28	0	1	1	1	0	0	x
29	0	1	1	1	0	1	x
30	0	1	1	1	1	0	x
31	0	1	1	1	1	1	x
32	1	0	0	0	0	0	1
33	1	0	0	0	0	1	1
34	1	0	0	0	1	0	x
35	1	0	0	0	1	1	1
36	1	0	0	1	0	0	1
37	1	0	0	1	0	1	1
38	1	0	0	1	1	0	x
39	1	0	0	1	1	1	x
40	1	0	1	0	0	0	0
41	1	0	1	0	0	1	0
42	1	0	1	0	1	0	x
43	1	0	1	0	1	1	0
44	1	0	1	1	0	0	x
45	1	0	1	1	0	1	x
46	1	0	1	1	1	0	x
47	1	0	1	1	1	1	x
48	1	1	0	0	0	0	x
49	1	1	0	0	0	1	x
50	1	1	0	0	1	0	x
51	1	1	0	0	1	1	x
52	1	1	0	1	0	0	x
53	1	1	0	1	0	1	x
54	1	1	0	1	1	0	x
55	1	1	0	1	1	1	x
56	1	1	1	0	0	0	x
57	1	1	1	0	0	1	x
58	1	1	1	0	1	0	x
59	1	1	1	0	1	1	x
60	1	1	1	1	0	0	x
61	1	1	1	1	0	1	x
62	1	1	1	1	1	0	x
63	1	1	1	1	1	1	x