

Tablas de verdad

B ₃	B ₂	B ₁	B ₀	a	b	c	d	e	f	g
0	0	0	0	1	1	1	1	1	1	0
0	0	0	1	0	1	1	0	1	1	0
0	0	1	0	1	1	1	1	0	0	0
0	0	1	1	0	0	0	0	0	0	1
0	1	0	0	1	1	1	0	1	1	0
0	1	0	1	1	1	1	0	1	1	1
0	1	1	0	1	1	1	1	0	0	0
0	1	1	1	1	0	0	1	0	0	1
1	0	0	0	0	1	1	1	1	1	0
1	0	0	1	1	0	0	1	0	0	0
1	0	1	0	1	0	0	1	1	1	0
1	0	1	1	1	1	0	1	0	1	1
1	1	0	0	0	1	1	1	1	1	0
1	1	0	1	1	1	1	0	1	1	1
1	1	1	0	1	1	1	1	0	0	0
1	1	1	1	0	1	1	0	1	1	1

Mapas de Karnaugh

B_3B_2/B_1B_0	00	01	11	10
00	1	0	0	1
01	1	1	1	1
11	0	1	0	1
10	0	1	1	1

$a = (B_1 \neg B_0) + (B_2 \neg B_3) + (B_1 \neg B_0) + (B_3 \neg B_2 B_0)$

B_3B_2/B_1B_0	00	01	11	10
00	1	1	0	1
01	1	1	0	1
11	1	1	1	1
10	1	0	1	0

$b = (\neg B_1 \neg B_0) + (B_2 B_3) + (\neg B_3 \neg B_0) + (\neg B_3 \neg B_1) + (B_3 B_1 B_0)$

B_3B_2/B_1B_0	00	01	11	10
00	1	1	0	1
01	1	1	0	1
11	1	1	1	1
10	1	0	0	0

$c = (\neg B_1 \neg B_0) + (B_2 B_3) + (\neg B_3 \neg B_1) + (\neg B_0 \neg B_3)$

B_3B_2/B_1B_0	00	01	11	10
00	1	0	0	1
01	0	0	1	1
11	1	0	0	1
10	1	1	1	1

$d = (B_3 \neg B_2) + (\neg B_2 \neg B_0) + (\neg B_0 B_1) + (\neg B_0 B_3) + (\neg B_3 B_2 B_1)$

B_3B_2/B_1B_0	00	01	11	10
00	1	1	0	0
01	1	1	0	0
11	1	1	1	0
10	1	0	0	1

$e = (\neg B_1 \neg B_0) + (\neg B_3 \neg B_1) + (B_2 B_3 B_0) + (\neg B_0 B_3 \neg B_2)$

B_3B_2/B_1B_0	00	01	11	10
00	1	1	0	0
01	1	1	0	0
11	1	1	1	0
10	1	0	1	1

$f = (\neg B_1 \neg B_0) + (\neg B_3 \neg B_1) + (B_2 B_3 B_0) + (\neg B_2 B_3 B_1)$

B_3B_2/B_1B_0	00	01	11	10
00	0	0	1	0
01	0	1	1	0
11	0	1	1	0
10	0	0	1	0

$g = (B_1 B_0) + (B_2 B_0)$