

Bcd to 9's complement

	BCD BCD				9's complement			
	A	B	C	D	w	x	y	z
0	0	0	0	0	1	0	0	1
1	0	0	0	1	1	0	0	0
2	0	0	1	0	0	1	1	1
3	0	0	1	1	0	1	1	0
4	0	1	0	0	0	1	0	1
5	0	1	0	1	0	1	0	0
6	0	1	1	0	0	0	1	1
7	0	1	1	1	0	0	1	0
8	1	0	0	0	0	0	0	1
9	1	0	0	1	0	0	0	0



AB \ CD	w			
	00	01	11	10
00	1	1	0	0
01	0	0	0	0
11	X	X	X	X
10	0	0	X	X

$$w = A'B'C'$$

AB \ CD	x			
	00	01	11	10
00	0	0	1	1
01	1	1	0	0
11	X	X	X	X
10	0	0	X	X

$$x = BC' + B'C = B \oplus C$$

AB \ CD	y			
	00	01	11	10
00	0	0	1	1
01	0	0	1	1
11	X	X	X	X
10	0	0	X	X

$$y = C$$

AB \ CD	z			
	00	01	11	10
00	1	0	0	1
01	1	0	0	1
11	X	X	X	X
10	1	0	X	X

$$z = D'$$

