

Subject:

Year:

Month:

Date:

BCD

9's complement

NOTE BOOK

	A	B	C	D
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	1
5	0	1	1	0
6	0	1	1	1
7	1	0	0	1
8	1	0	0	0
9	1	0	1	0

$$d(A, B, C, D) = \sum (10, 11, 12, 13, 14, 15)$$

AB	00	01	11	10
00	1	0	0	0
01	0	0	0	0
11	0	0	0	0
10	0	0	0	0

$$w = A'BC$$

AB	00	01	11	10
00	0	0	1	1
01	1	1	0	0
11	0	0	0	0
10	0	0	0	0

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

AB	00	01	11	10
00	0	0	1	1
01	0	0	1	1
11	0	0	0	0
10	0	0	0	0

$$y = x$$

AB	00	01	11	10
00	1	0	0	1
01	1	0	0	1
11	0	0	0	0
10	1	0	0	0

$$z = 0$$