AB CD	00	01	11	10
00	**1**			**1**
01		**1**	**1**	
11	1	1	1	1
10		**1**	**1**	

Y = BCD’ + B’CD + BC’D + B’C’D’ + CD =

Y = B(CD’+C’D) + B’(CD+C’D’) +CD

C(+)D (C(+)D)’

X X’

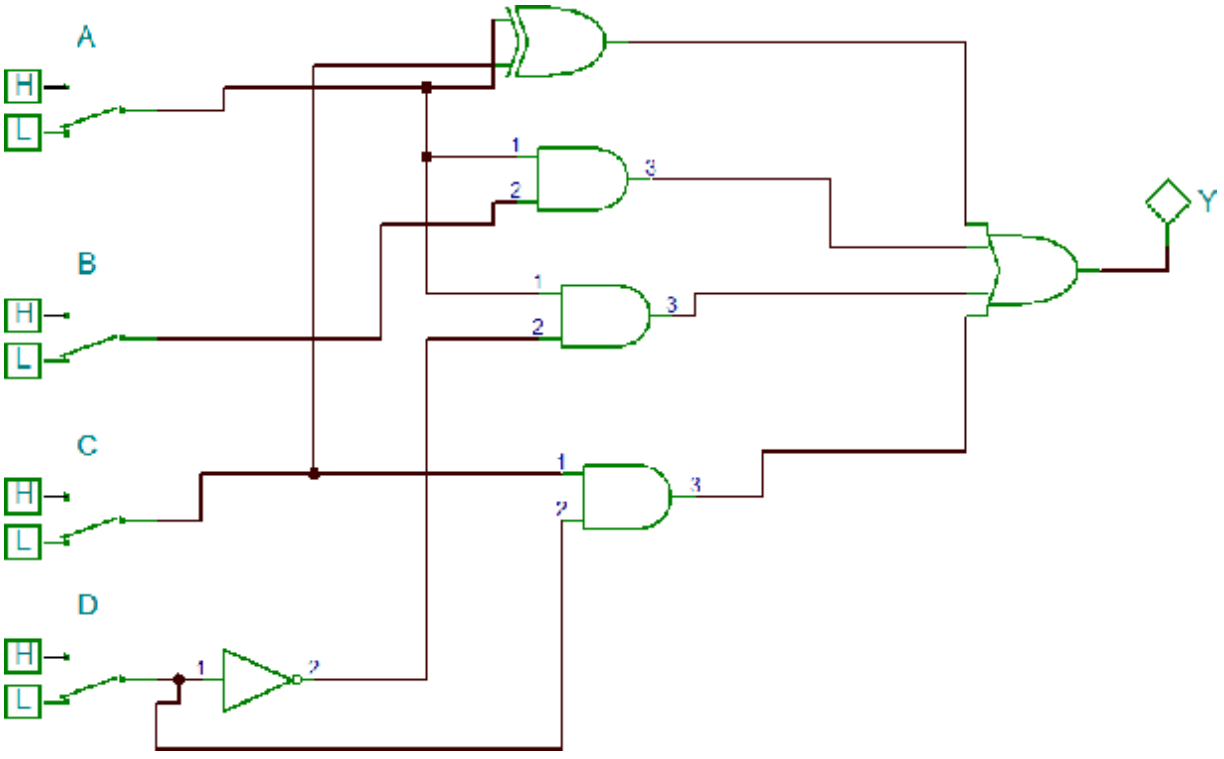
Y1 = BX +B’X’ + CD = (B(+)X)’ + CD = (B(+)C(+)D)’ + CD

Y2 = (B(+)C(+)D)’ +BC

Y3 = (B(+)C(+)D)’ + BD

AB CD	00	01	11	10
00	**1**	**1**	**0**	**1**
01	**1**	**1**	**1**	**1**
11	**1**	**1**	**1**	**1**
10	**1**	**1**	**1**	**1**

Y’ = ABC’D’ →Y = (ABC’D’)’ = A’+B’ + C + D



=A(+)C +AB +AD' + CD

Y =A(+)C +AB +AD' + CD

Y =A’C + AC’ + AB +AD’ + CD(1+A)

Y = A’C + AC’ + AB +AD’ + CD + ACD

Y = A(C’ +D’ +CD + B) + A’C +CD

Y = A[(CD)’ + CD + B] = A(1+C) + A’C + CD =

Y = A + AC + A’C + CD = A + C(A+A’+D) = A + C

Y = A’C + AC’ + AB +AD’ + CD

AB CD	00	01	11	10
00			**1**	1
01			**1**	1
11	**1**	**1**	**1**	1
10	**1**	**1**	**1**	1

Y = A + C