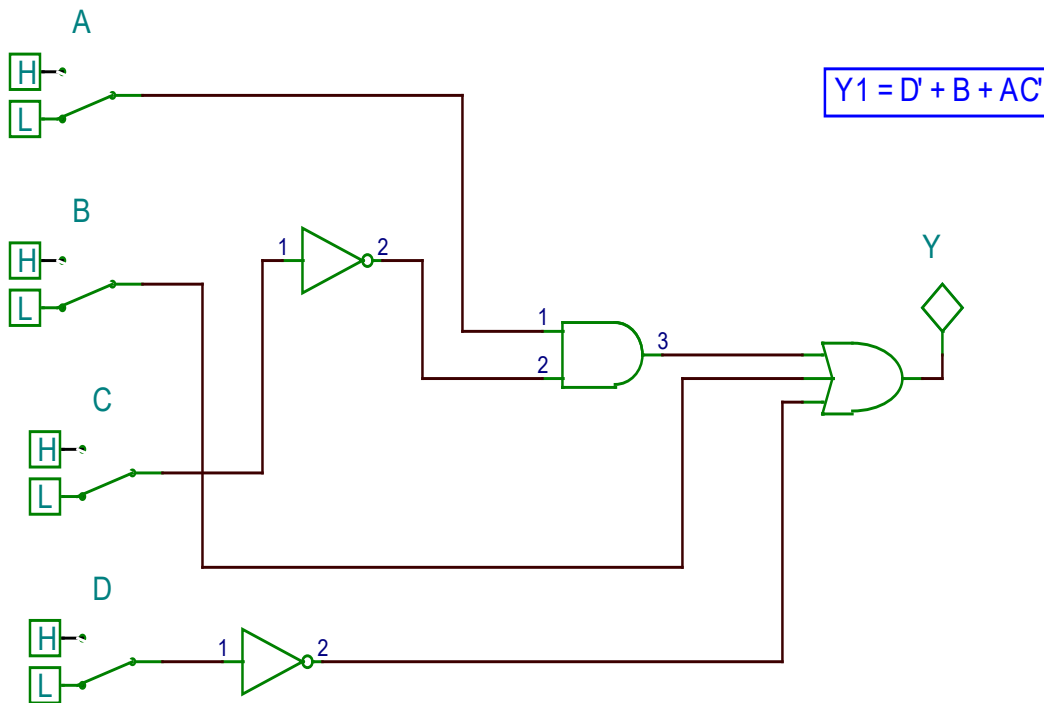


# MAC283 Classwork NO-2 Solutions

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

$$Y1 = D' + B + AC'$$



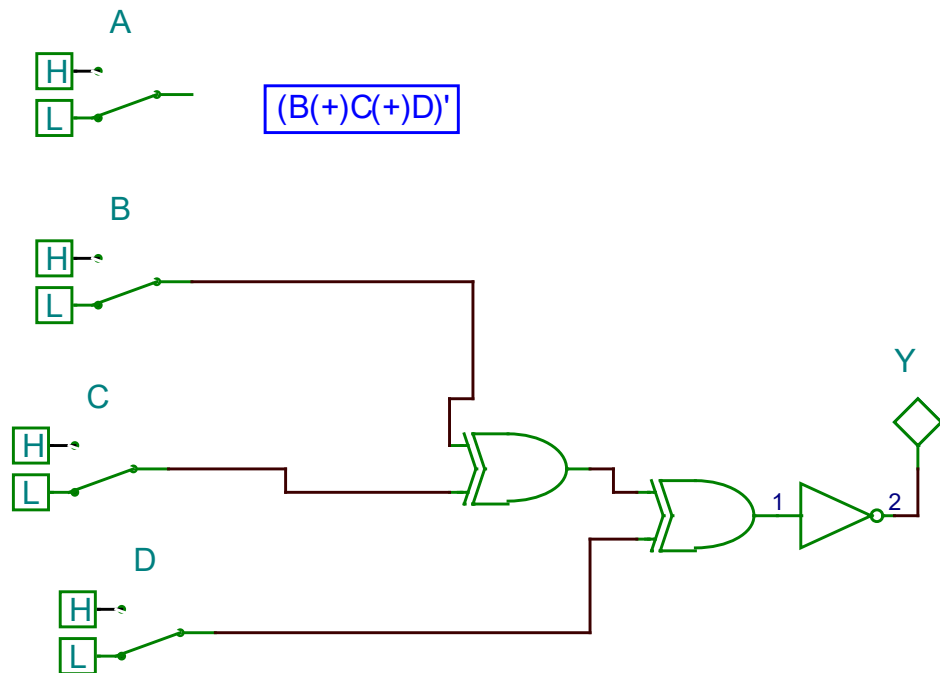
<b>AB</b>	00	01	11	10
<b>CD</b>				
00	1			1
01		1	1	
11	1			1
10		1	1	

$$Y = BCD' + B'CD + BC'D + B'C'D'$$

$$W \qquad W'$$

$$Y = B(C'D + CD') + B'(CD + C'D') = B(C(+)D) + B'(C(+)D)'$$

$$Y = BW + B'W' = B(+)W = (B(+)W)' =$$



$$(B(+)C(+)D)'$$

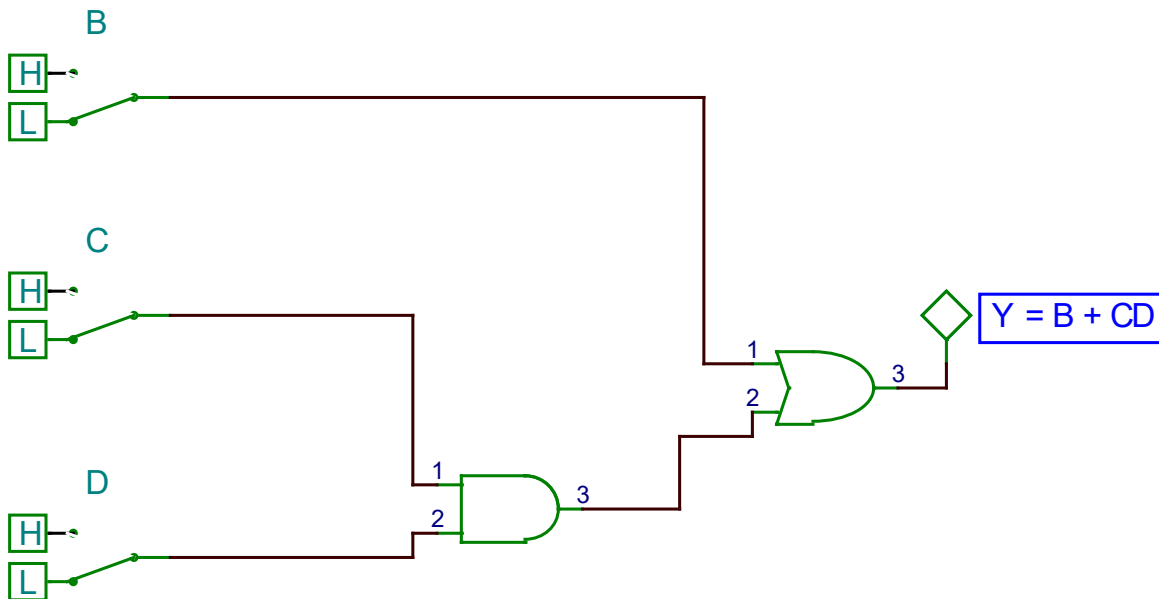
$$Y1' = (B'D' + B'C')'' = B + CD \rightarrow$$

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

$$Y = (B'D' + B'C')' = (B'D')' (B'C')' = (B+D)(B+C) = B + CD$$

$$Y2 = A(+)B + A(+)D + AB + BD + BC =$$

$$Y = A'B + AB' + A'D + AD' + AB + BD + BC$$



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

$$Y' = A'B'D' \rightarrow Y = (A'B'D')' = A+B+D$$

