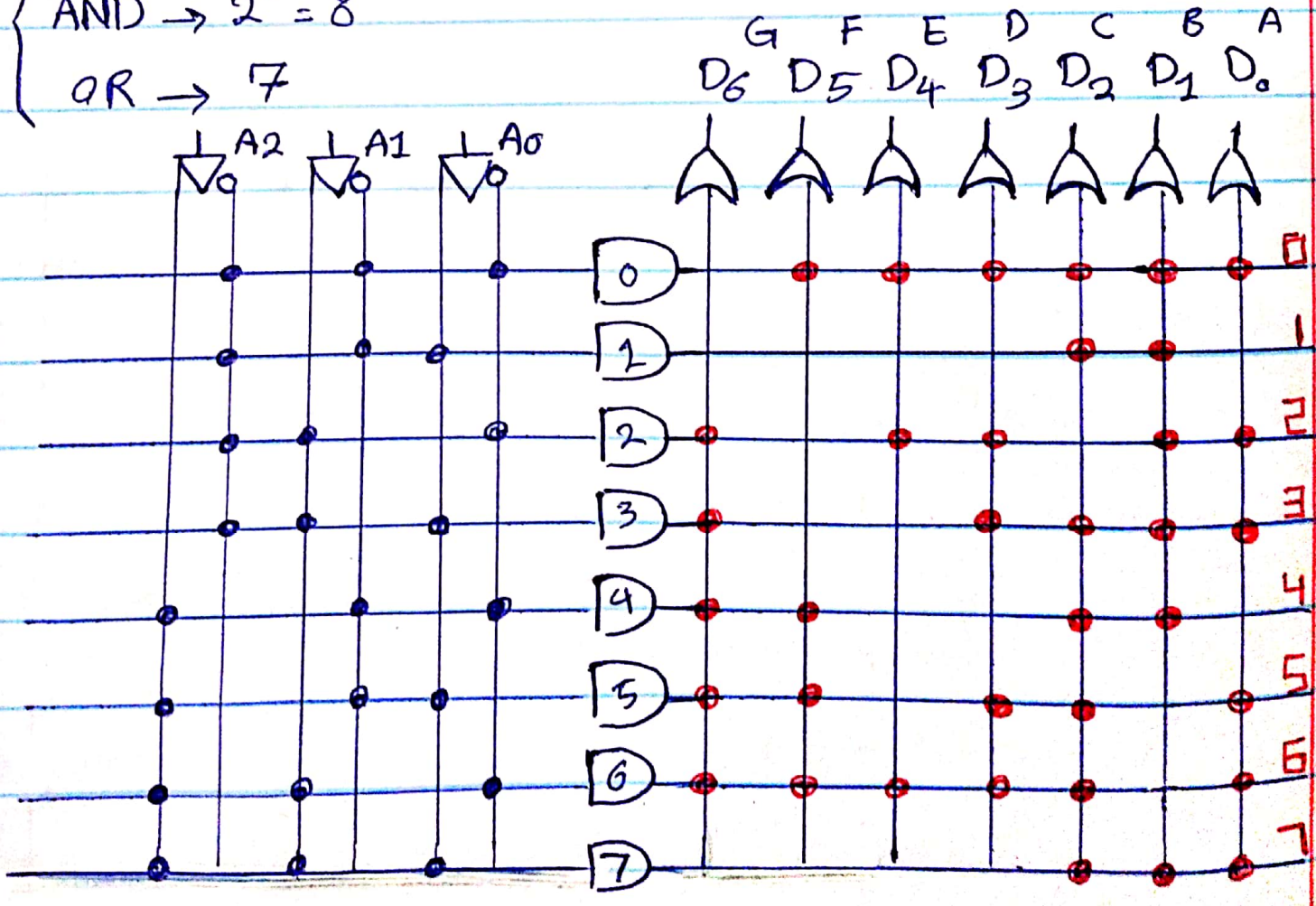
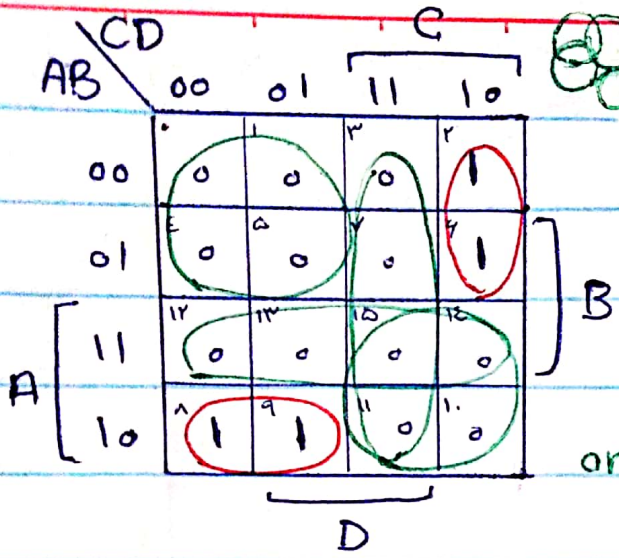
			G	F	E	D	C	B	A	
A_2	A_1	A_0	D_6	D_5	D_4	D_3	D_2	D_1	D_0	
0	0	0	0	1	1	1	1	1	1	0
0	0	1	0	0	0	0	1	1	0	1
0	1	0	1	0	1	1	0	1	1	2
0	1	1	1	0	0	1	1	1	1	3
1	0	0	1	1	0	0	1	1	0	4
1	0	1	1	1	0	1	1	0	1	5
1	1	0	1	1	1	1	1	0	1	6
1	1	1	0	0	0	0	1	1	1	7

AND → $2^3 = 8$

OR → 7



PROM 3x7



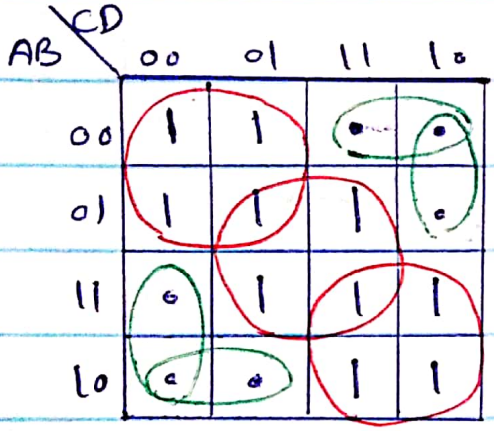
or ★

$W(A,B,C,D) = \Sigma(1,4,8,9)$

$W = AB'C' + A'CD'$

$W = (A'C' + CD + AB + AC)'$ PLA

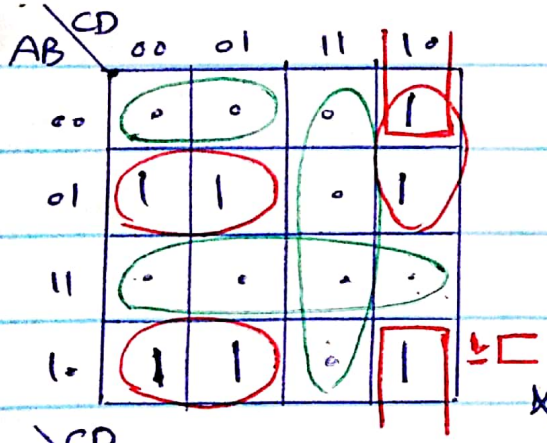
or ★ $W = (A'C' + A'D + BC' + AC)'$



$X(A,B,C,D) = \Sigma(0,1,5,8,9,10,11,12,13,14)$

$X = A'C' + BD + AC$ PLA

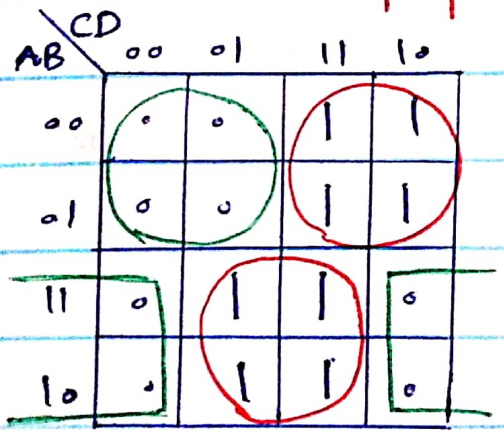
$X = (A'B'C + A'CD' + AB'C' + AC'D')'$



$Y(A,B,C,D) = \Sigma(1,5,8,9,10)$

$Y = AB'C' + A'BC' + A'CD' + B'CD'$

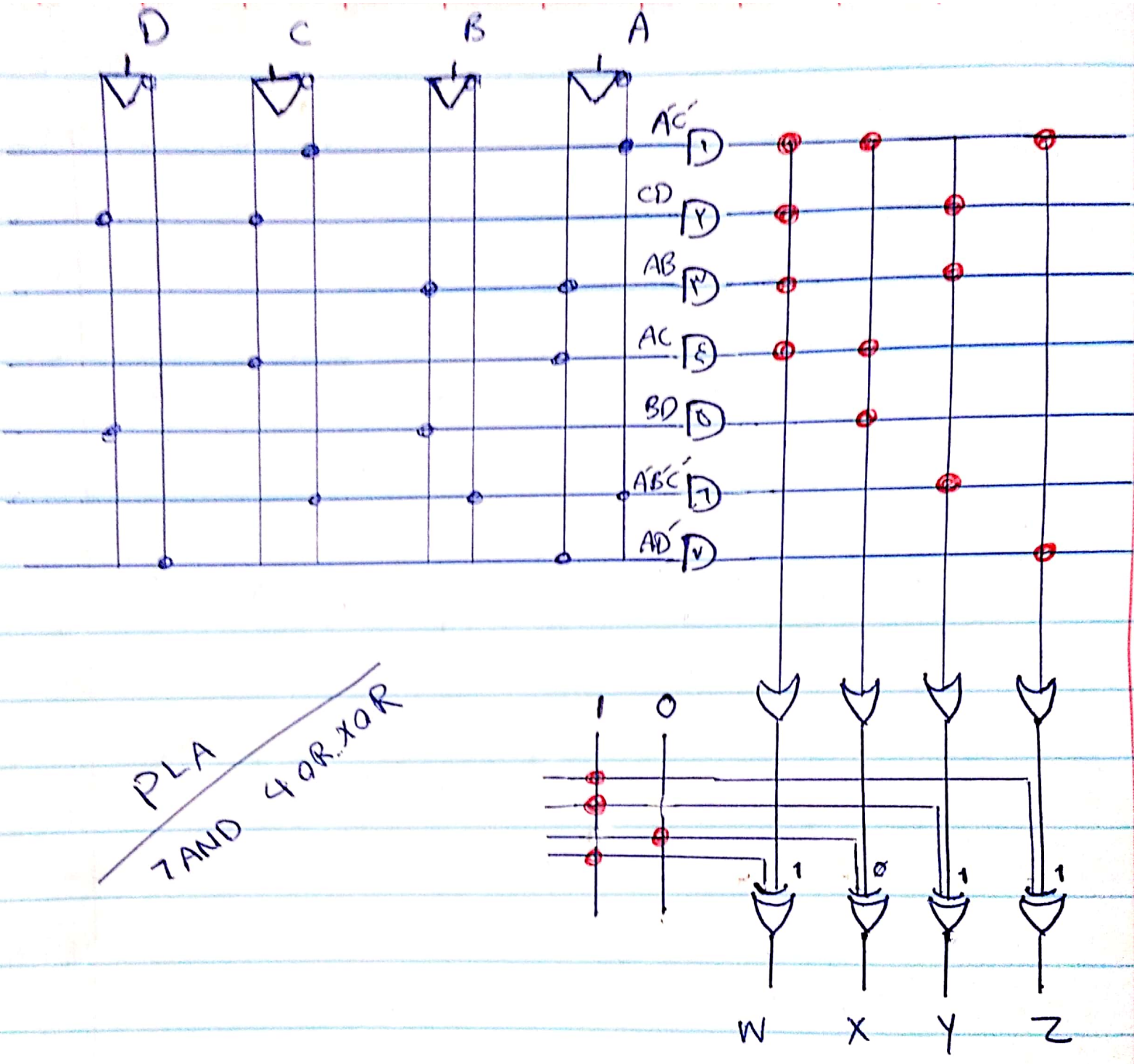
$Y = (CD + AB + A'B'C')'$



$Z(A,B,C,D) = \Sigma(2,3,4,5,9,11,12,13)$

$Z = AD + A'C$

$Z = (A'C' + AD')'$



PLA

7 AND 4 OR XOR