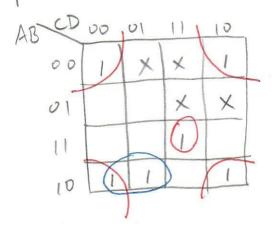
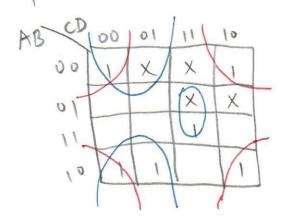
1. O SOP : without don't cares



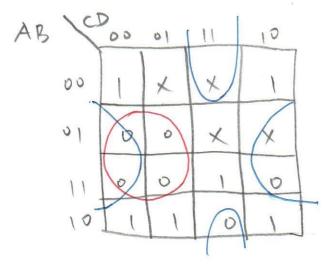
2 sop: with don't cores



3 POS: Without don't cares

AB	10	000	١٧	11	10		
1	00	1	X	X			
	01	0	0	X	X		
	11	0	0		0		
	10		1	(0)			

$$Y = (\overline{B} + C)(\overline{A} + \overline{B} + D)(\overline{A} + \overline{B} + \overline{C} + \overline{D})$$



$$Y = (\overline{B} + c)(\overline{B} + \overline{D})(B + \overline{c} + \overline{D})$$

2. 0 Minterms

0	1	2	4	5	6	11	13	15
0000	0001	00 0	0100	6101	0110	1011	1101	(11)

@ Gruping minterms, comparisons, & combinations

Drank	0	0	0000	\checkmark
			0001	/
grug	١	2	00 10	/
		4	0100	V
MOND	2	5	0101	~
Dunk	-	6	0110	\checkmark
02000	9	1)	1011	1
Dronb	5	13	1101	V
dronb	4	15	1111	V

13,15 11-1

table 2

PIs:	5,13	-101	BED
1-112-0	11,15	1-11	ACD
table 2	13,15	11-1	ABD
	0,1,4,5	0-0-	Āē
table 3	0,2,4,6	00	ĀD

3 PI chart

	Trdex	PI	0	1	12	4	5 6	. 11	13) 15
PI	5,13	BED					×		X	
Epz	(11, 15	ACD						8		5
PI	13,15	ABD							X	X
Epi	0,1,4.5	ĀĒ	×	10		X	X		The second second	
EPI	0,2,4,6	AD	1×		10)/×	110	0		

$$Y = AcD + \overline{Ac} + \overline{Ad} + BcD$$

$$\overline{bp2}$$

$$p_2$$