Assignment 6

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$$(\bar{a}b) + (ac) + (ab\bar{c})$$

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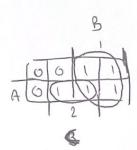
iii. Step 1): K-map for 3 variables:

			1	b			
	mo	m,	m3	m2			
A	my	25	m7	m6			
		(

Step 2): Write 1's into cells:

			1.61		
	0	0	1	1	
A	0) ;	1)	
		6	上		

Step B): Maximum grouping ;

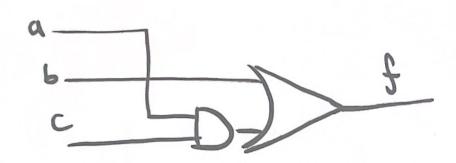


step (4): B+AC

Q,

iii. continued.

Drawing the circuit:



iv. The simplified one is better since it requires much less gates and is

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ii.	[a]	5	c	(1 dx		ac 1	ac.5	ab + ac.5
_	10	0	0	1	0		(*	1
_	6	0	11	+	0		*	1	
	10	1	10	1	O	1	1	2	0
	10	+	1	+	0	1	9	0	0
	-1-	+	0 6	5	D	+	db	1	
		-	5	1	0	1	9	0 -	0
		1	110	0	1		de	0	1
		1	1	1	1		0	0	1
	/	1	/		1		1	1	1

III. The 1s we have in the output are: $mo_g m_{1,g} mu_g mb_g mt$ $f = (\overline{A}.\overline{B}.\overline{c}) + (\overline{A}.\overline{B}.\overline{c}) + (\overline{A}.\overline{B}.\overline{c}) + (\overline{A}.\overline{B}.\overline{c})$

Q3 In word document