

Assignment 5

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1 Boolean Expression in POS form

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

2 Kmap for 2.5,f

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

3 Simplified equation

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