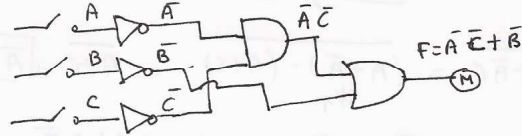
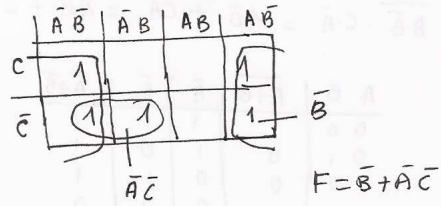


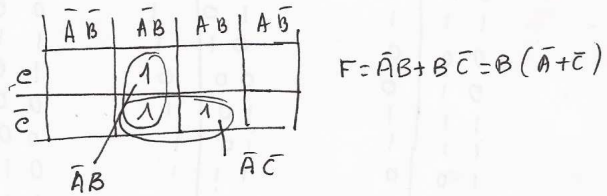
1)

A	B	C	M
0	0	0	1 → $\bar{A}\bar{B}\bar{C}$
0	0	1	1 → $\bar{A}\bar{B}C$
0	1	0	1 → $\bar{A}B\bar{C}$
0	1	1	0
1	0	0	1 → $A\bar{B}\bar{C}$
1	0	1	1 → $A\bar{B}C$
1	1	0	0
1	1	1	0

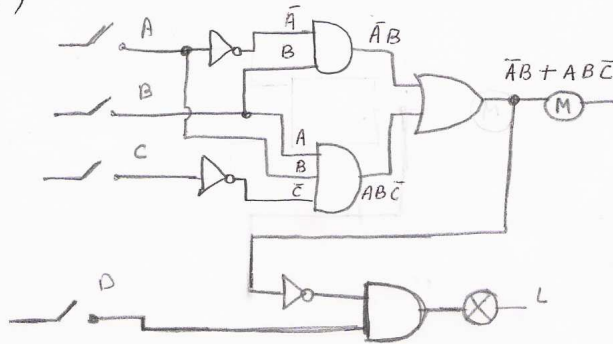


2) $F = \bar{A}B + AB\bar{C}$ $\bar{A}B = 01x$ $AB\bar{C} = 110$

A	B	C	M
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0



3)



$$L = \bar{A}B + AB\bar{C} \cdot D$$

4) $\overline{A\bar{B} \cdot C\bar{A}} = \overline{A\bar{B}} + \overline{C\bar{A}} = A\bar{B} + \bar{C} + A = A(\bar{B} + 1) = \boxed{A + \bar{C}}$

b)

A	B	A+B	\bar{A}	\bar{B}	$\overline{A+B}$
0	0	1	1	1	1
0	1	0	1	0	1
1	0	0	0	1	1
1	1	0	0	0	0

$\underbrace{\hspace{10em}}_{\neq} \text{ Falso}$

c) $\overline{A + \bar{B}C} = \overline{(A + \bar{A}) \cdot (A + C)} = \overline{A + C} = \boxed{\overline{A \cdot C}}$

d) $1 \cdot \bar{0} + 1 \cdot 1 \cdot \bar{0} + A \cdot \bar{B} = 1 \cdot 1 + 1 \cdot 1 \cdot 1 + A\bar{B} = 1 + 1 + A\bar{B} = \boxed{1}$

5)

A	B	$F_1 = A \cdot B$	A	B	$F_3 = A + B$	A	B	$F_2 = A \cdot \bar{B}$	A	B	$A \oplus B$
0	1	0	0	0	0	1	0	1	0	1	1
1	1	1	1	0	1	0	0	1	1	1	0
0	0	0	0	1	1	1	1	0	0	0	0
0	1	0	0	0	0	1	0	1	0	1	1
1	1	1	1	0	1	0	0	1	1	1	0
1	1	1	1	0	1	0	0	1	1	1	0
1	0	0	1	1	1	0	1	1	1	0	1
0	0	0	0	1	1	1	1	0	0	0	0