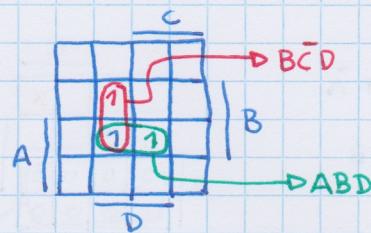


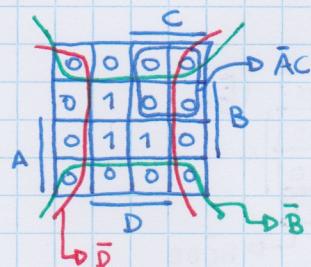
Exercícios práticos

29) a) $F_1 = \underbrace{\bar{A}\bar{B}\bar{C}D}_{1} + \underbrace{A\bar{B}\bar{C}D}_{1} + \underbrace{ABCD}_{1}$



} Forma mínima
Soma de produtos
(FNSP)

$$F_1 = B\bar{C}D + ABD$$

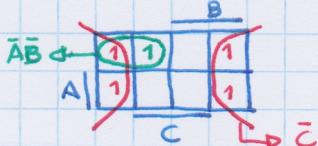


} Forma mínima
produto de somas
(FNPS)

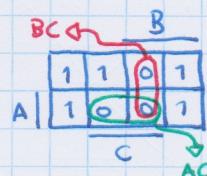
$$F_1 = \bar{B} + \bar{D} + \bar{A}C \quad \times$$

$$F_1 = B \cdot D \cdot (A + \bar{C}) \quad \checkmark \text{ (Trocar tudo)}$$

b) $F_2 = \underbrace{\bar{C}}_{1} + \underbrace{\bar{A}\bar{B}C}_{1}$

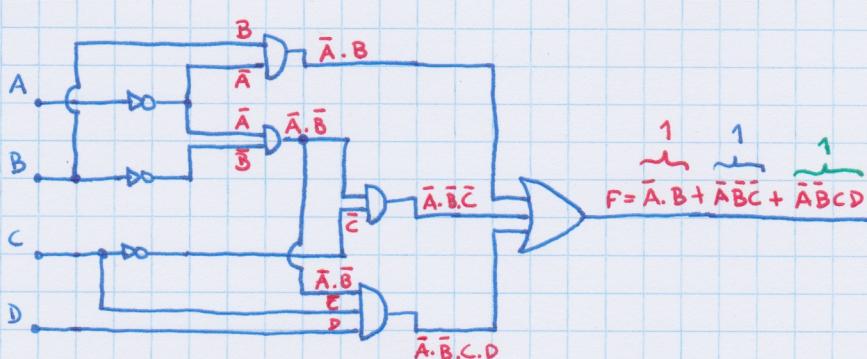


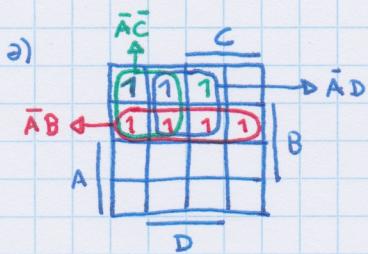
$$F_2 = \bar{A}\bar{B} + \bar{C} \rightarrow \text{FNSP}$$



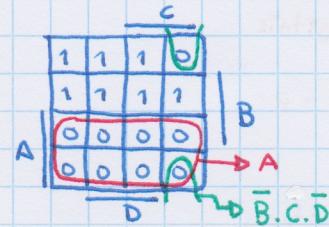
$$F_2 = (\bar{A} + \bar{C}) \cdot (\bar{B} + \bar{C}) \rightarrow \text{FNPS}$$

32)





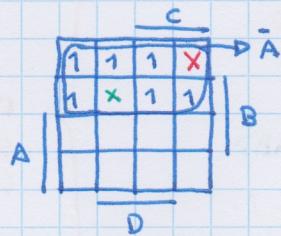
$$F = \bar{A}B + \bar{A}\bar{C} + \bar{A}D \rightarrow F \text{NFS}$$



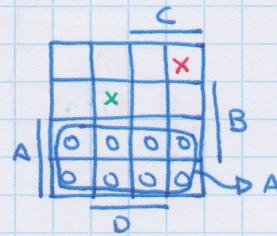
$$F = \bar{A} \cdot (B + \bar{C} + D) \rightarrow F \text{NFS}$$

b)

A	B	C	D
0	0	1	0
1	0	0	0
0	1	0	1
1	0	1	0

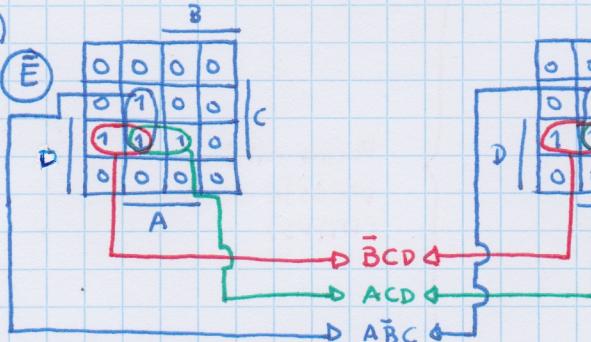


$$F = \bar{A} \rightarrow F \text{NFS}$$

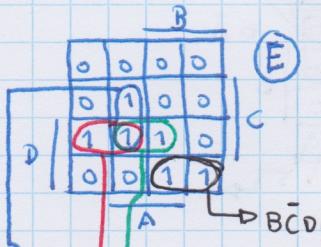


$$F = \bar{A} \rightarrow F \text{NFS}$$

35) a)



$$F = \bar{B}CD + A\bar{B}C + ACD + B\bar{C}DE$$



Porque só está no mapa com E.