

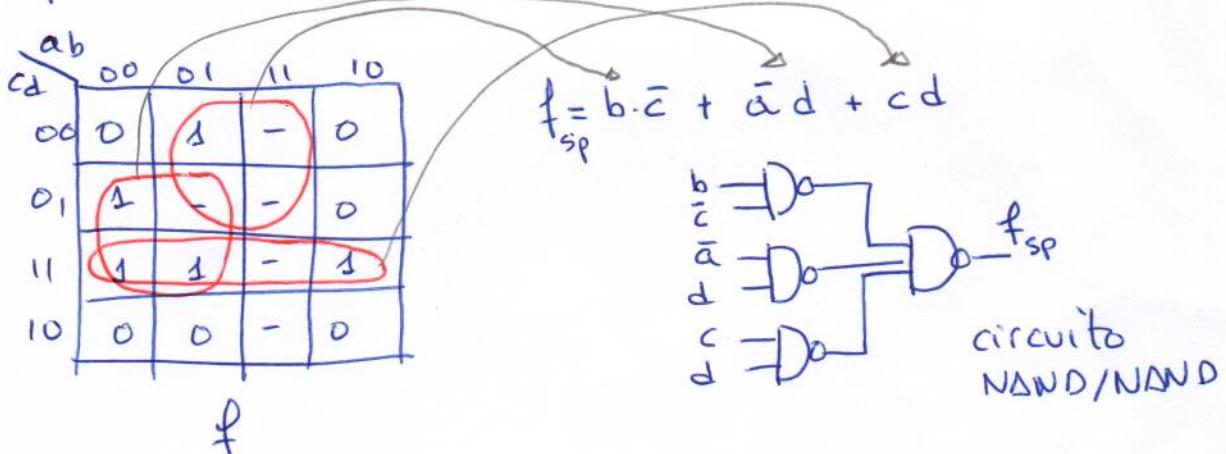
Ejercicio 2

$$f(a, b, c, d) = \sum(1, 3, 4, 7, 11) + d(5, 12, 13, 14, 15)$$

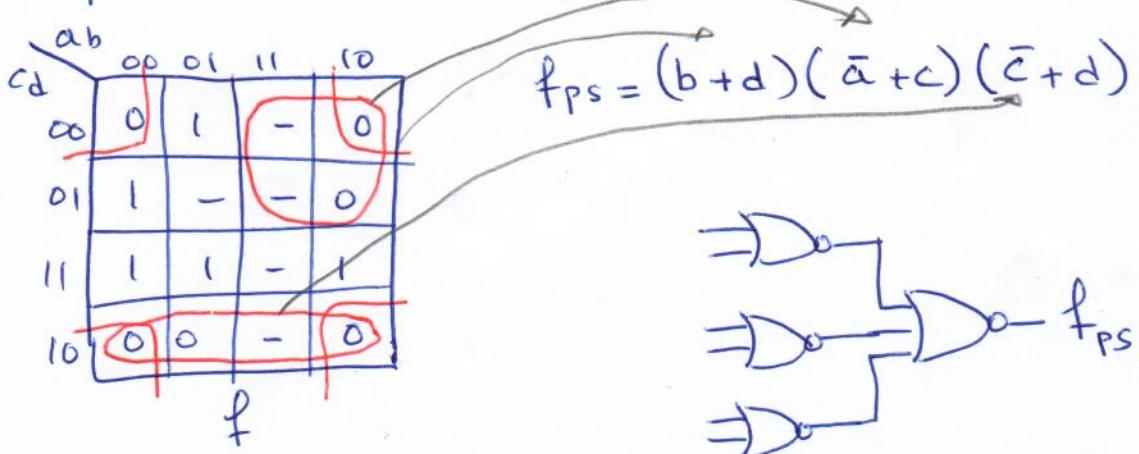
El mapa es:

		ab	00	01	11	10
		cd	00	01	11	10
f	00	0	1	-	0	
	01	1	-	-	0	
	11	1	1	-	1	
	10	0	0	-	0	

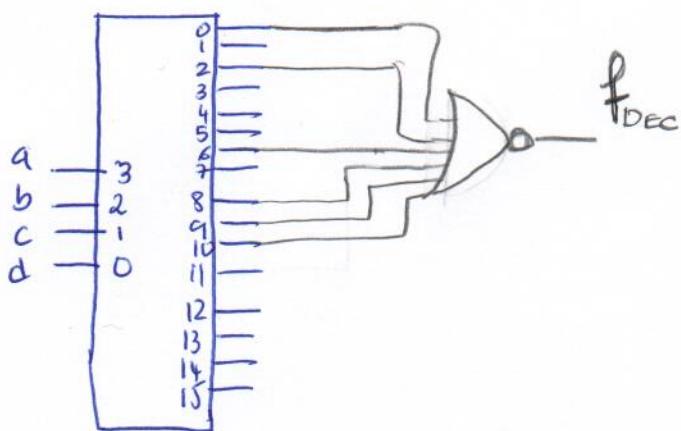
Expresión mínima en suma de productos:



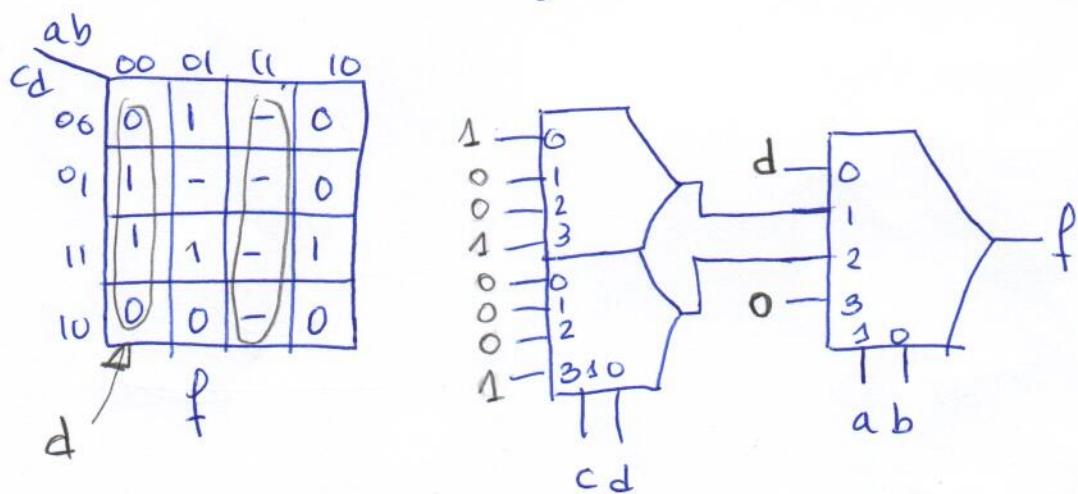
Expresión mínima en producto de sumas:



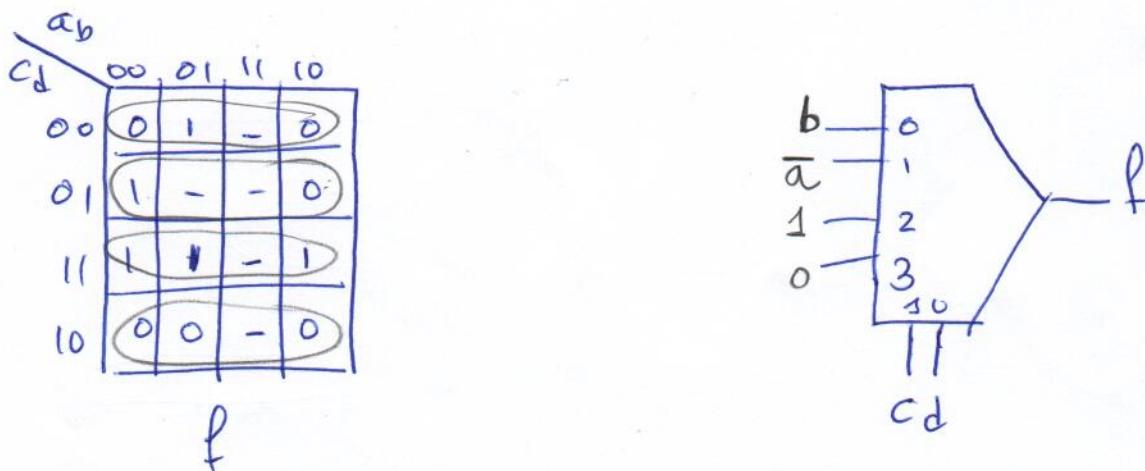
Con DEC 4:16 y una NOR:



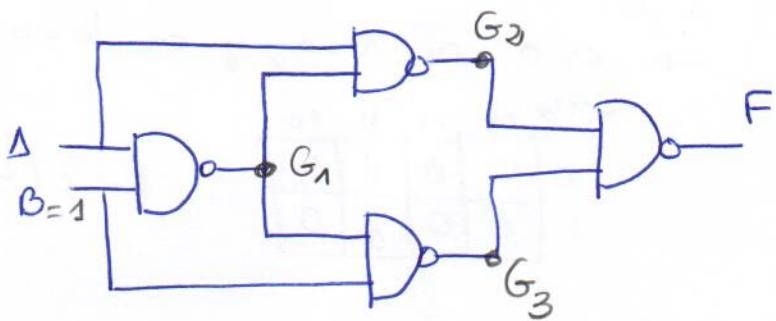
Con MUX2 (MUX4:1):



o bien:



Ejercicio 3



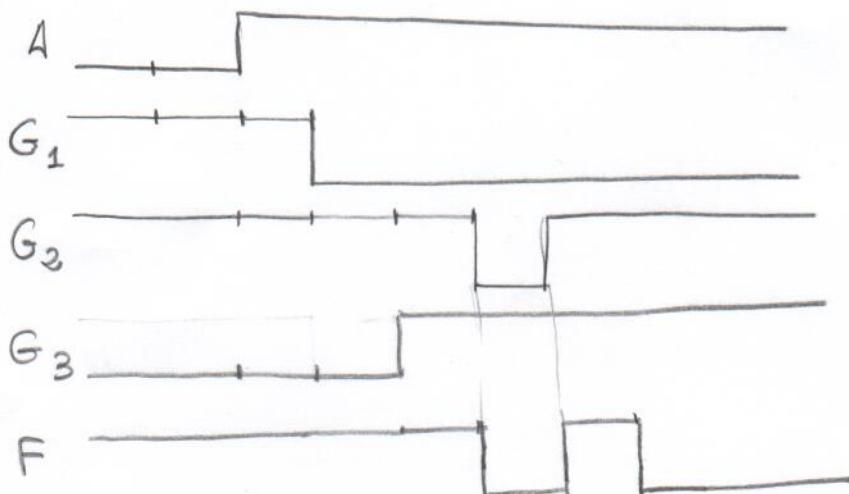
$$F = a \oplus b$$

$$\text{Como } b = 1 \Rightarrow F = a \oplus 1 \Rightarrow \\ \Rightarrow F = \bar{a}$$

Ideamente:



Análisis con retrasos:



Apartado 1,3

$$f = \overline{\bar{a} + \bar{b}c} \rightarrow \text{es 0 en } a=0, \text{ y en } b=0, c=1$$

		ab	00	01	11	10
c	0	0	0	1	1	
	1	0	0	1	0	

$$f = \Sigma(4, 6, 7)$$

$d \oplus b = 1$

Diagrama de Karnaugh



Diagrama de la función

