Entradas: 5 sensores A,B,C,D,E Salidas: 1, Alarma = 1 si está activa

Clausulas que me darán los mintérminos:

i) 00100 = 4

ii) 1x01x = 18, 19, 26, 27

iii) 11111 = 31

iv) x1x00 = 8, 12, 24, 28

Clausulas que nunca ocurrirán (darán x en la tabla de la verdad):

1. 00000 = 0

2. 10000 = 16

3. 1x101 = 21, 29

4. 01011 = 11

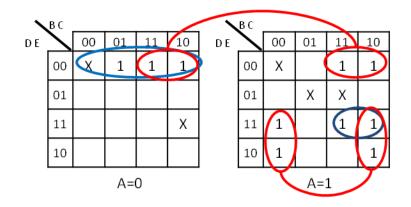
••	010				
В	С	D	Ε		Alarma
0	0	0	0		X
0	0	0	1		0
0	0	1	0		0
0	0	1	1		0
0	1	0	0		1
0	1	0	1		0
0	1	1	0		0
0	1	1	1		0
1	0	0	0		1
1	0	0	1		0
1	0	1	0		0
1	0	1	1		Χ
1	1	0	0		1
1	1	0	1		0
1	1	1	0		0
1	1	1	1		0
0	0	0	0		X
	0	0	1		0
	0	1	0		1
	0	1	1		1
0	1	0	0		0
0	1	0	1		X
0	1	1	0		0
0	1		1		0
1	0	0	0		1
1	0	0	1		0
					1
1	0	1	1		1
1	1	0	0		1 X
1	1	0	1		X
1	1	1	0		0
	0 0 0 0 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0	0 0   0 0   0 0   0 1   0 1   0 1   0 1   1 0   1 0   1 1   1 1   1 1   1 1   0 0   0 0   0 0   0 1   0 1   0 1   1 0   1 0   1 0   1 0   1 0   1 0   1 0   1 0   1 0   1 0   1 1   1 1   1 1   1 1   1 1   1 1   1 1   1 1   1 1   1	0 0 0   0 0 0   0 0 1   0 1 0   0 1 0   0 1 1   1 0 0   1 0 0   1 0 1   1 0 1   1 1 0   1 1 1   1 1 1   1 1 1   0 0 0   0 0 0   0 0 1   0 1 0   0 1 0   0 1 0   0 1 1   1 0 0   1 0 0   1 0 0   1 0 0   1 0 0   1 0 0   1 0 0   1 0 0	0 0 0 0   0 0 0 1   0 0 1 0   0 1 0 0   0 1 0 1   0 1 0 1   0 1 1 1   1 0 0 0   1 0 1 1   1 0 1 1   1 1 0 0   1 1 1 0   1 1 1 1   1 1 1 1   1 1 1 1   0 0 0 0   0 0 1 1   0 0 1 1   0 1 0 0   0 1 0 0   0 1 0 0   0 1 1 0   0 1 1 0   0 <	0 0 0 0   0 0 0 1   0 0 1 0   0 0 1 1   0 1 0 0   0 1 1 0   0 1 1 1   1 0 0 0   1 0 1 1   1 0 1 1   1 1 1 1   1 1 1 1   1 1 1 1   1 1 1 1   1 1 1 1   0 0 0 0   0 0 1 1   0 1 0 0   0 1 0 0   0 1 1 0   0 1 1 0   0 1 1 0   0 1 1 0   1 <

1 | 1 | 1 | 1 | 1

Por tanto las soluciones para S serán

$$\begin{aligned} \text{Alarma=} \; & \Sigma_{\text{m}}(4,8,12,18,19,24,26,27,28,31) + \Phi(0,11,16,21,29) \\ & = \Pi_{\text{M}}(1,2,3,5,6,7,9,10,13,14,15,17,20,22,23,25,30) \cdot \Phi(0,11,16,21,29) \end{aligned}$$

Si resuelvo con minterminos por ejemplo



por tanto,

$$Alarma = (/A \cdot /D \cdot /E) + (B \cdot /D \cdot /E) + (A \cdot /C \cdot D) + (A \cdot B \cdot D \cdot E)$$

