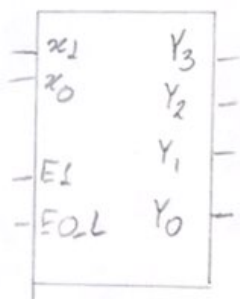


Guião 6 Parte I

1

2:4 decoder



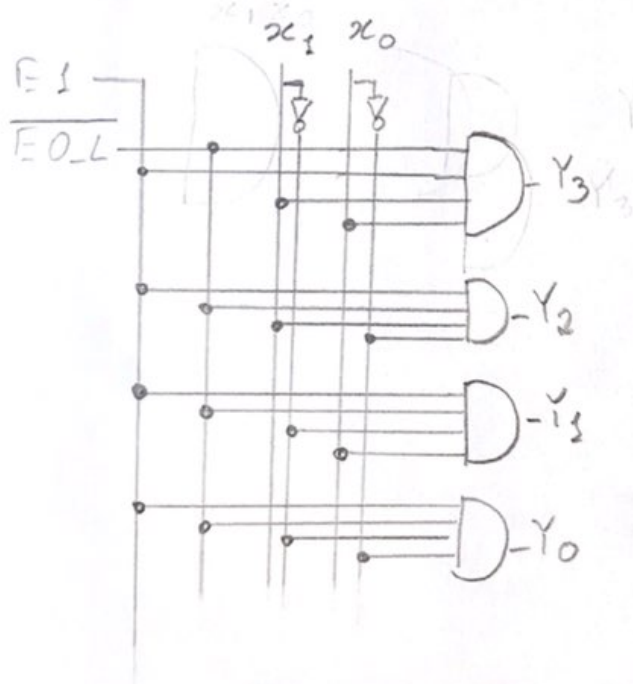
ES	EO-L	x_1	x_0	Y_3	Y_2	Y_1	Y_0
0	1	não		codificação			
1	0	0	0	0	0	0	1
		0	1	0	0	1	0
		1	0	0	1	0	0
		1	1	1	0	0	0

$$Y_3 = ES \times \overline{EO-L} \times x_1 \times x_0$$

$$Y_2 = ES \times \overline{EO-L} \times x_1 \times \overline{x_0}$$

$$Y_1 = ES \times \overline{EO-L} \times \overline{x_1} \times x_0$$

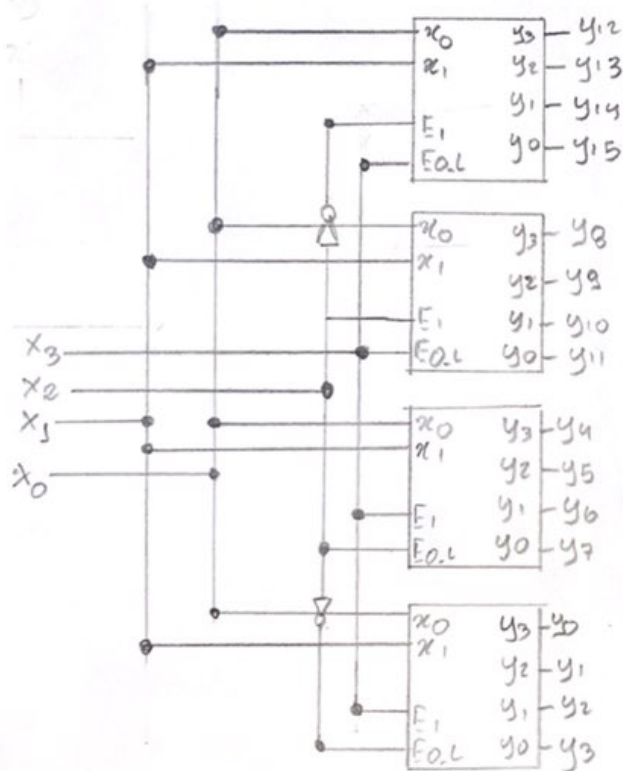
$$Y_0 = ES \times \overline{EO-L} \times \overline{x_1} \times \overline{x_0}$$



5.

4:16 usando 2:4

x_3	x_2	x_1	x_0	y_{15}	y_{14}	y_{13}	y_{12}	y_{11}	y_{10}	y_9	y_8	y_7	y_6	y_5	y_4	y_3	y_2	y_1	y_0
0	0	0	0																1
		0	1																
		1	0															1	
		1	1														1		
	1	0	0												1				
		0	1																
		1	0											1					
		1	1																
1	0	0	0							1									
		0	1																
		1	0						1										
		1	1																
	1	0	0				1												
		0	1																
		1	0																
		1	1																



1) Pont II

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

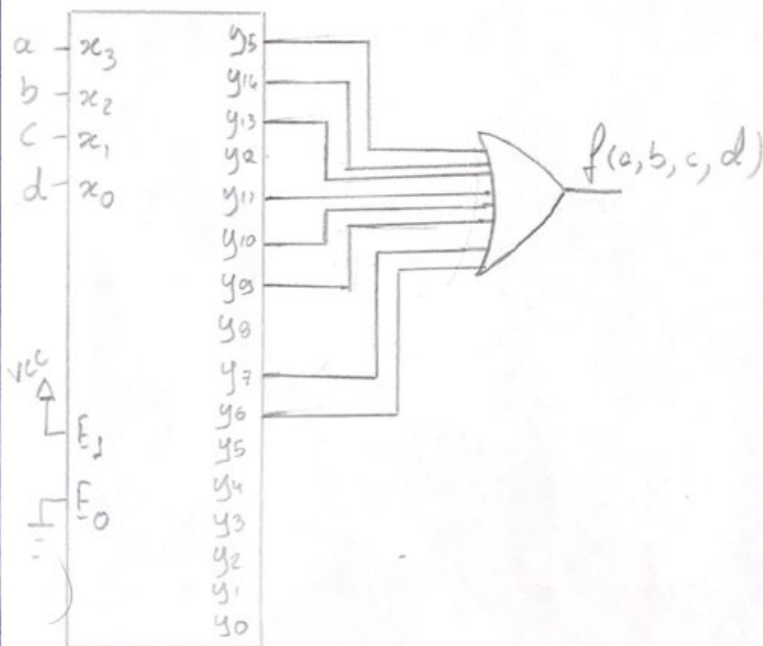
CD \ AB	A			
	00	01	11	10
00	0	1	3	2
01	4	5	7	6
11	12	13	15	14
10	8	9	11	10

$$= (A \times D) + (A \times C) + (B \times C)$$

$$f(A, B, C, D) = \sum m(6, 7, 9, 10, 11, 13, 14, 15) = (\dots)$$

$$= (A \times D) + (A \times C) + (B \times C)$$

2)



(no quer-lus -live de cabem
Um mo f omes de
Saida pq?)

E-L	x ₇	x ₆	x ₅	x ₄	x ₃	x ₂	x ₁	x ₀	y ₂	y ₁	y ₀	OS-L
1	1	1	1	1	1	1	1	1	1	1	1	0
0	1	1	1	1	1	1	1	0	1	1	0	0
0	0	1	1	1	1	1	1	1	1	0	1	0
0	0	0	1	1	1	1	1	0	1	0	0	0
0	0	0	0	1	1	1	1	1	0	1	1	0
0	0	0	0	0	1	1	1	0	1	0	0	0
0	0	0	0	0	0	1	1	1	0	0	1	0
0	0	0	0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0	0	1
1	1	1	1	1	1	1	1	1	0	0	0	

← Erro
← N funciona

$$H_7 = x_7$$

$$H_6 = \overline{x_7} \cdot x_6$$

$$H_5 = \overline{x_7} \cdot \overline{x_6} \cdot x_5$$

$$H_4 = \overline{x_7} \cdot \overline{x_6} \cdot \overline{x_5} \cdot x_4$$

$$H_3 = \overline{x_7} \cdot \overline{x_6} \cdot \overline{x_5} \cdot \overline{x_4} \cdot x_3$$

$$H_2 = \overline{x_7} \cdot \overline{x_6} \cdot \overline{x_5} \cdot \overline{x_4} \cdot \overline{x_3} \cdot x_2$$

$$H_1 = \overline{x_7} \cdot \overline{x_6} \cdot \overline{x_5} \cdot \overline{x_4} \cdot \overline{x_3} \cdot \overline{x_2} \cdot x_1$$

$$H_0 = \overline{x_7} \cdot \overline{x_6} \cdot \overline{x_5} \cdot \overline{x_4} \cdot \overline{x_3} \cdot \overline{x_2} \cdot \overline{x_1} \cdot x_0$$

$$y_2 = H_7 + H_6 + H_5 + H_4$$

$$y_1 = H_7 + H_6 + H_3 + H_2$$

$$y_0 = H_7 + H_5 + H_3 + H_1$$

$$OS-L = (\overline{x_0 + x_1 + x_2 + x_3 + x_4 + x_5 + x_6 + x_7}) + EL$$

x_0
 x_1
 x_2
 x_3
 x_4
 x_5
 x_6
 x_7

