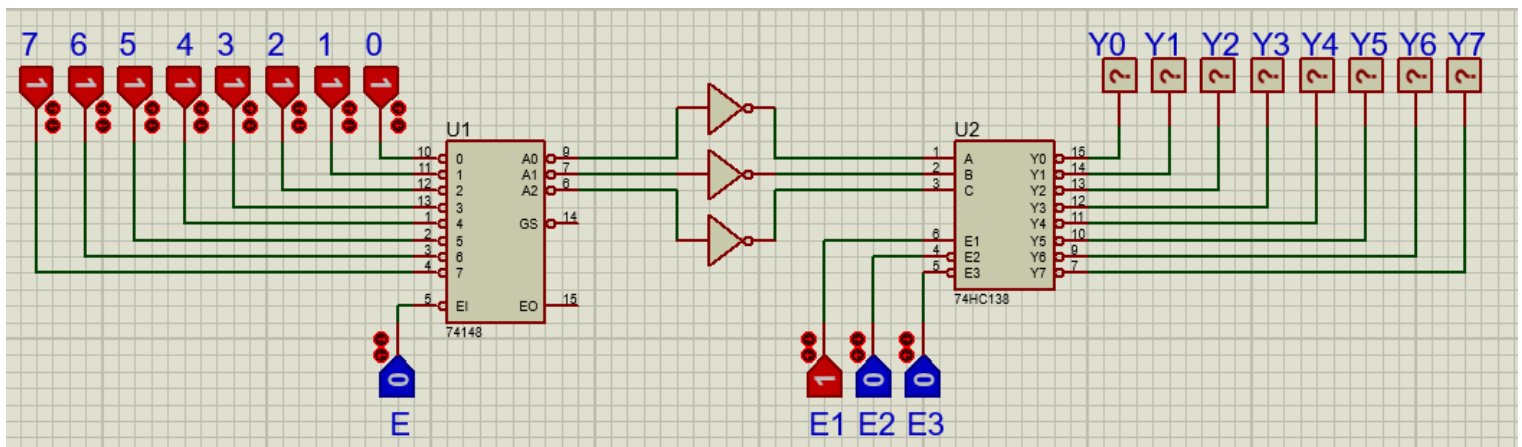


Complete a tabela considerando o ajuste técnico realizado entre os CI's:

Palavra octal acionada (a ser codificada para binário). CI 74 148								Código binário nas saídas. CI 74 148			Código binário nas entradas. CI 74HC138			Palavra octal decodificada. CI 74HC138							
0	1	2	3	4	5	6	7	A2	A1	A0	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
X	X	X	X	X	X	X	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0
X	X	X	X	X	X	0	1	0	0	1	1	1	0	1	1	1	1	1	1	0	1
X	X	X	X	X	0	1	1	0	1	0	1	0	1	1	1	1	1	1	0	1	1
X	X	X	X	0	1	1	1	0	1	1	1	0	0	1	1	1	0	1	1	1	1
X	X	X	0	1	1	1	1	1	0	0	0	1	1	1	1	0	1	1	1	1	1
X	X	0	1	1	1	1	1	1	0	1	0	1	0	1	1	0	1	1	1	1	1
X	0	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1



2)

E	C	B	A	Y_0	Y_1	Y_2	Y_3	Y_4	Y_5	Y_6	Y_7
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0	0
0	0	1	1	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0	0
0	1	0	1	0	0	0	0	0	0	0	0
0	1	1	0	0	0	0	0	0	0	0	0
0	1	1	1	0	0	0	0	0	0	0	0
1	0	0	0	1	0	0	0	0	0	0	0
1	0	0	1	0	1	0	0	0	0	0	0
1	0	1	0	0	0	1	0	0	0	0	0
1	0	1	1	0	0	0	1	0	0	0	0
1	1	0	0	0	0	0	0	1	0	0	0
1	1	0	1	0	0	0	0	0	1	0	0
1	1	1	0	0	0	0	0	0	0	1	0
1	1	1	1	0	0	0	0	0	0	0	1

$$Y_0 = E\bar{C}\bar{B}\bar{A}$$

$$Y_4 = EC\bar{B}\bar{A}$$

$$Y_1 = E\bar{C}\bar{B}A$$

$$Y_5 = EC\bar{B}A$$

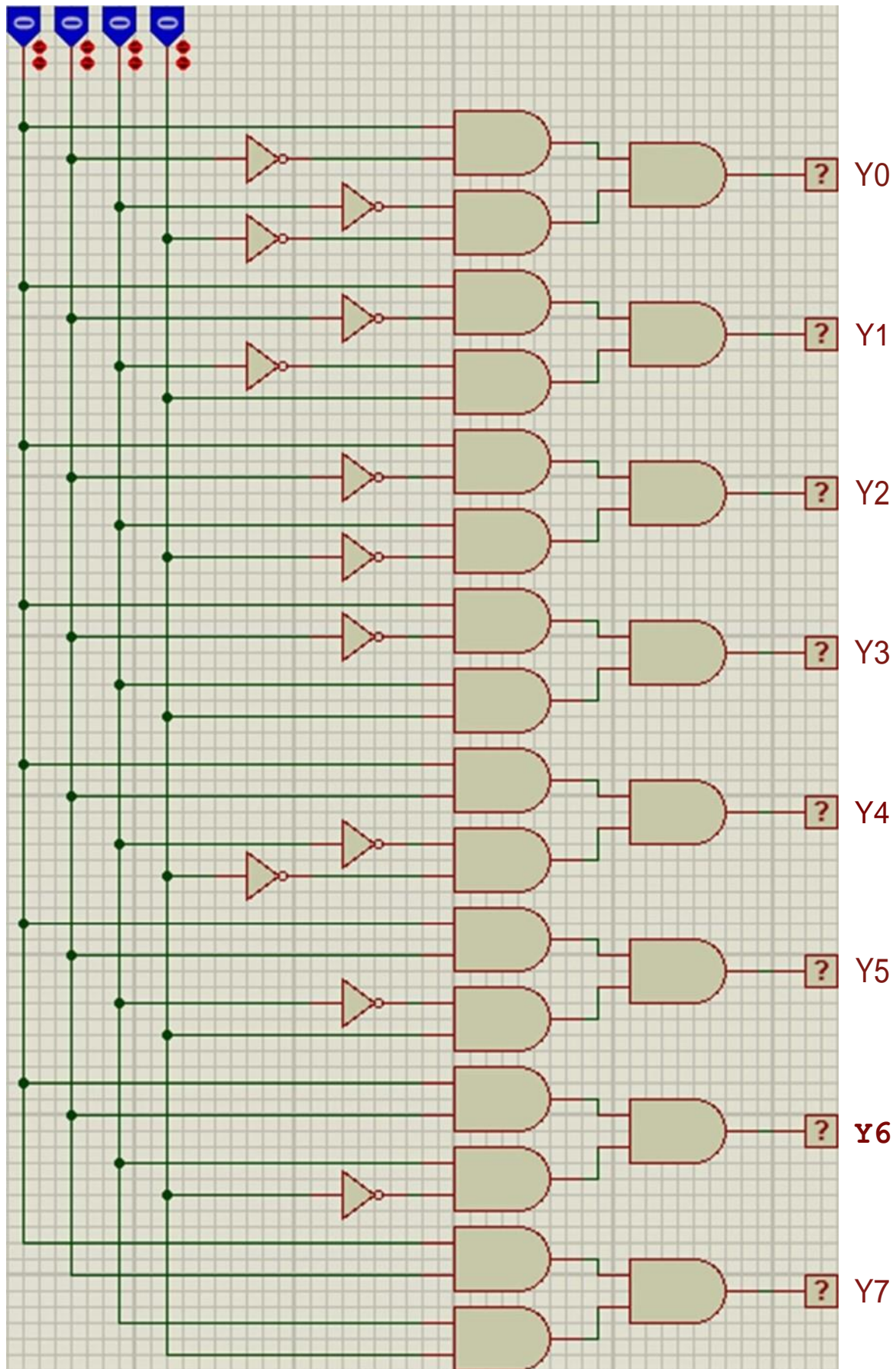
$$Y_2 = E\bar{C}B\bar{A}$$

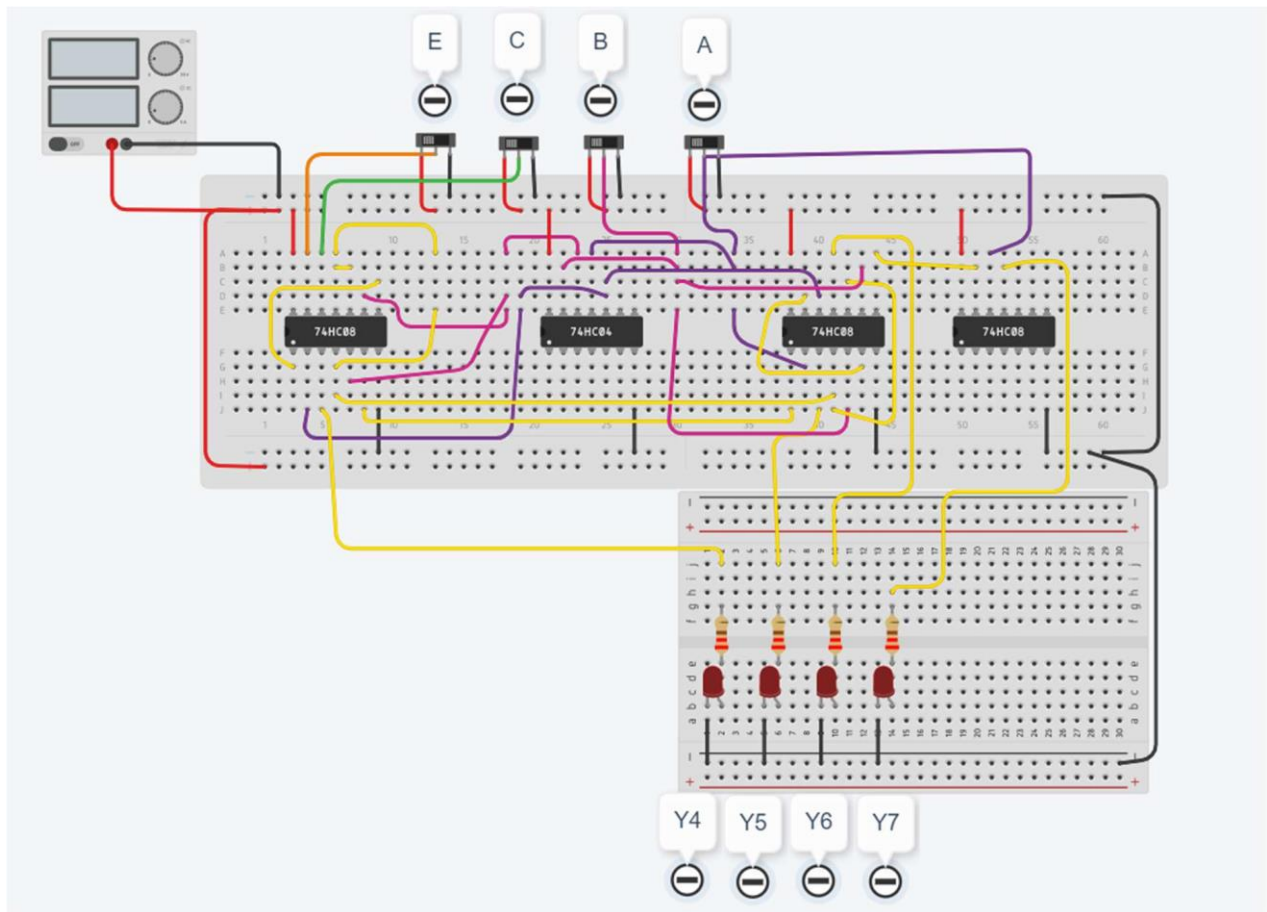
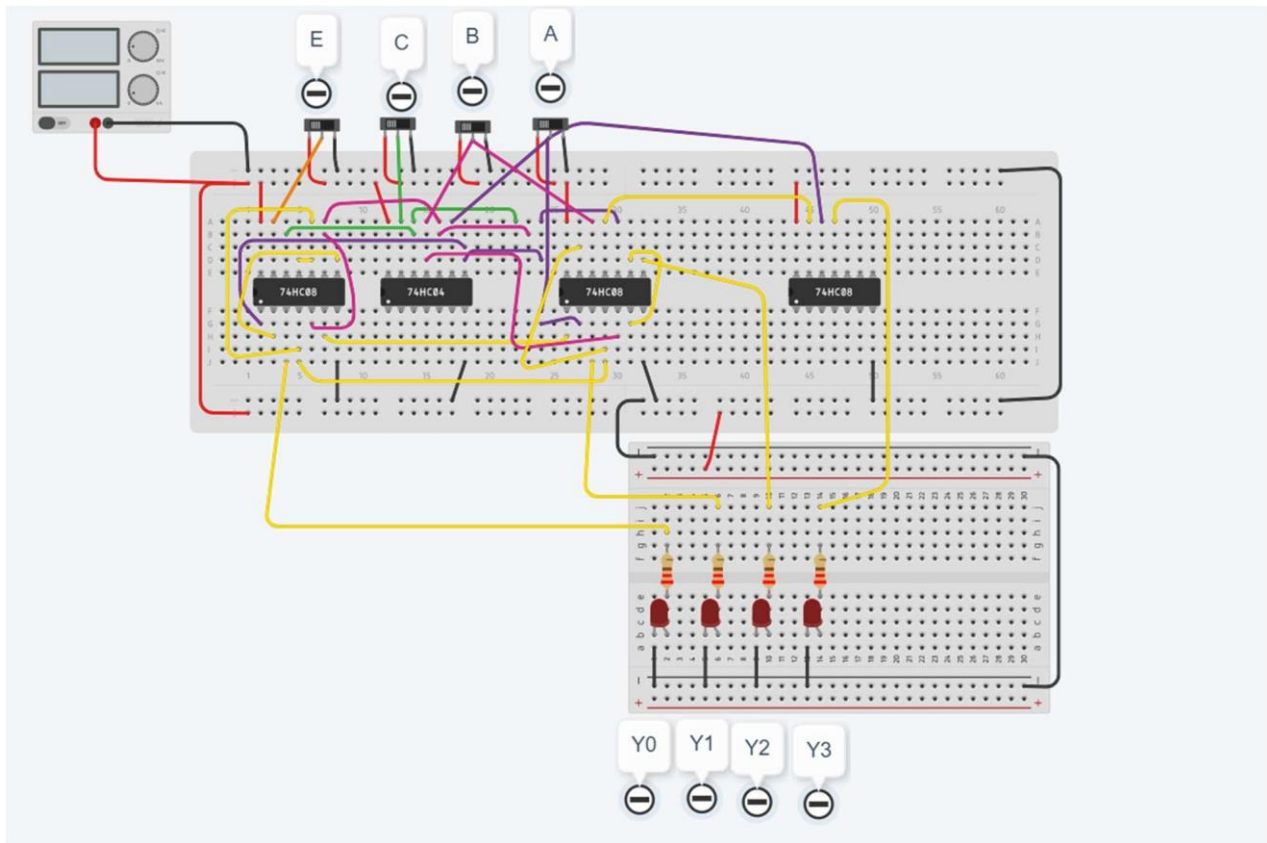
$$Y_6 = EC\bar{B}\bar{A}$$

$$Y_3 = E\bar{C}BA$$

$$Y_7 = ECBA$$

E C B A





3) a)

entrada: A, B, C

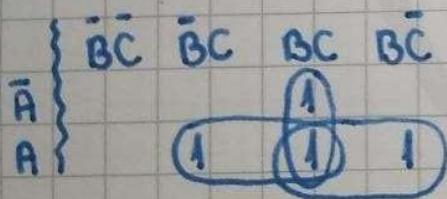
saída: X, Y, Z

b)	A	B	C	X	Y	Z
	0	0	0	1	0	0
	0	0	1	0	1	0
	0	1	0	0	1	0
	0	1	1	0	0	1
	1	0	0	0	1	0
	1	0	1	0	0	1
	1	1	0	0	0	1
	1	1	1	0	0	1

c) $X = \bar{A}\bar{B}\bar{C}$

$$Y = \bar{A}\bar{B}C + \bar{A}B\bar{C} + A\bar{B}\bar{C}$$

$$Z = \bar{A}BC + A\bar{B}C + AB\bar{C} + ABC = AC + AB + BC$$



$$Z = AC + AB + BC$$

