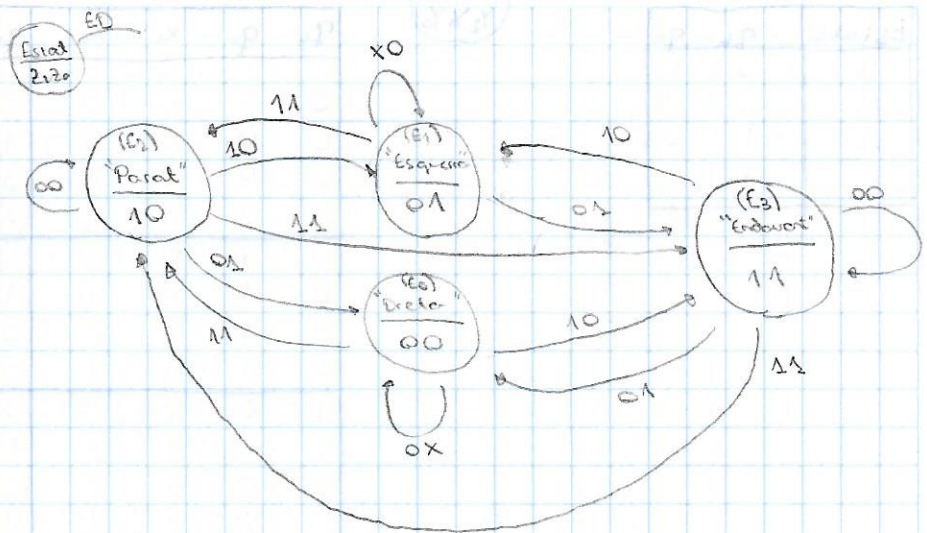


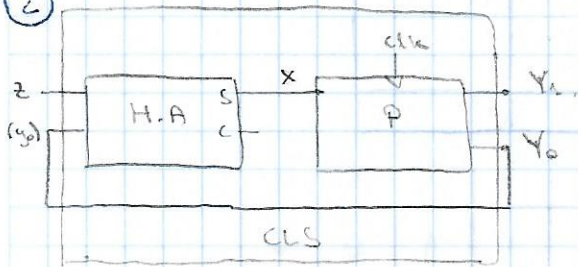
EXERCICIS TEMA 6

1

Acció del cotxe	z1	z2
Girar a la dreta	0	0
Girar a l'esquerra	0	1
Parar	1	0
Moure's endavant.	1	1



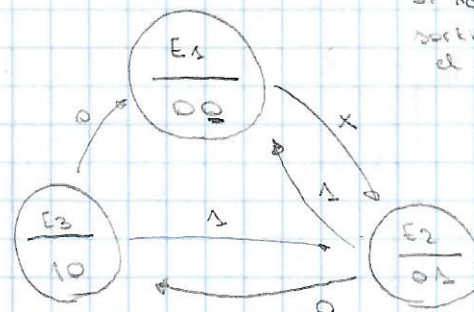
2



Tens el graf amb X i vols el graf per \bar{z} .



Si no canvien les sortides i els estats el graf es manté.



no actua com un HA

z	y_0	X
0	0	0
0	1	1
1	0	1
1	1	0

3

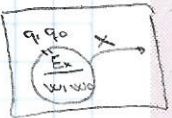
a) q_0 X \rightarrow Se que ten els que surten pel decodificador

Per tant: $D_0 = \bar{q}_0 \cdot \bar{X} + q_0 \cdot X$

Fent servir el multiplexor

Per tant: $D_1 = \bar{q}_0 (\bar{X} \cdot \bar{q}_1) + \bar{q}_0 (X \cdot \bar{q}_1) + 1 (X \cdot \bar{q}_1) + 0 (X \cdot q_1)$

$D_1 = \bar{q}_0 (\bar{X} \cdot \bar{q}_1) + \bar{q}_0 (X \cdot \bar{q}_1) + (X \cdot \bar{q}_1)$



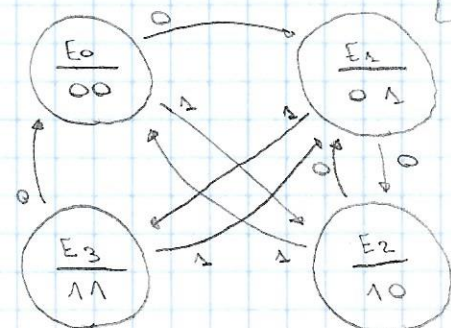
b)

q_1	q_0	X	q_1^+	q_0^+
0	0	0	0	1
0	0	1	1	0
0	1	0	1	0
0	1	1	1	1
1	0	0	0	1
1	0	1	0	0
1	1	0	0	0
1	1	1	0	1

$q_x = w_x$

q_1	q_0	w_1	w_0
0	0	0	0
0	1	0	1
1	0	1	0
1	1	1	1

c)



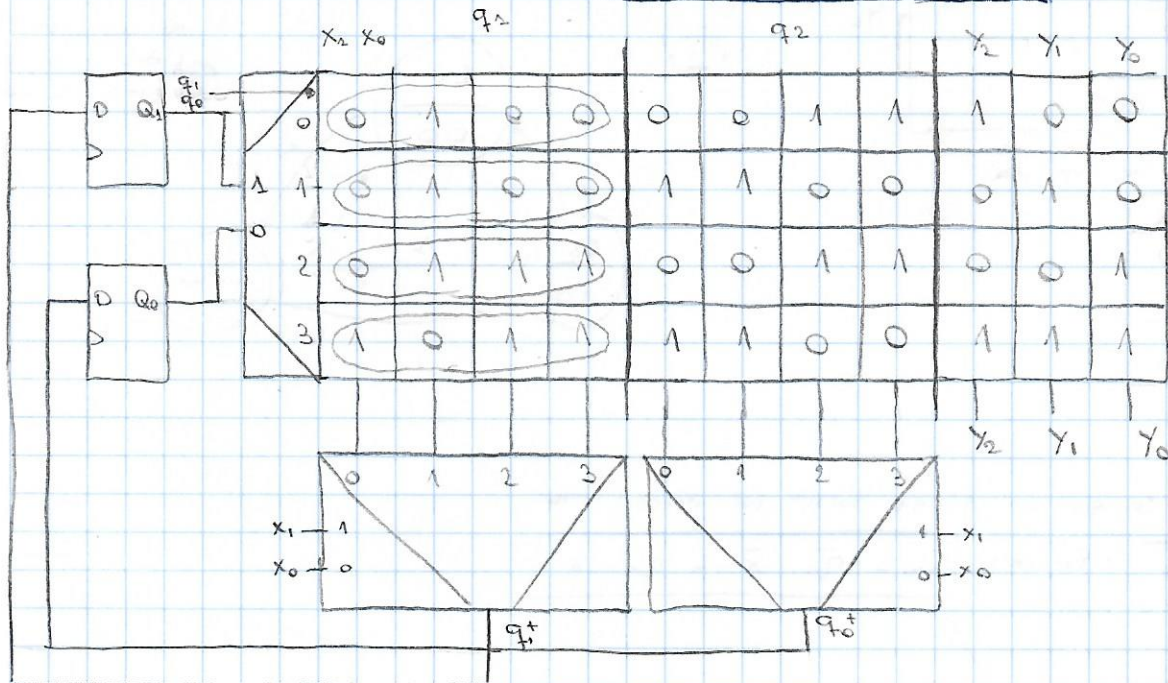
4

Estados	q_1	q_0
E_0	0	0
E_1	0	1
E_2	1	0
E_3	1	1

$\frac{E}{Y_2 Y_1 Y_0}$ $x_1 x_0$

q_1	q_0	x_1	x_0	q_1^+	q_0^+
0	0	0	0	0	0
0	0	0	1	1	0
0	0	1	0	0	1
0	0	1	1	0	1
0	1	0	0	0	1
0	1	0	1	1	1
0	1	1	0	0	0
0	1	1	1	0	1
1	0	0	0	0	0
1	0	0	1	1	0
1	0	1	0	1	1
1	0	1	1	1	1
1	1	0	0	1	1
1	1	0	1	0	1
1	1	1	0	1	0
1	1	1	1	1	0

q_1	q_0	Y_2	Y_1	Y_0
0	0	1	0	0
0	1	0	1	0
1	0	0	0	1
1	1	1	1	1



1) 5

Cell	0	1	2	3	4	5
DATA-IN	0x0010	0x0043	0x0022	0x000B	0x0010	0x0013
DATA-OUT	/	/	/	0x0020	0x0020	0x0014

2)

