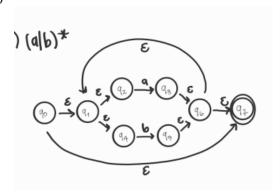
LABORATORIO 2

Problema 1

a)

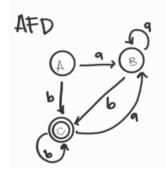
Expo	esion	1 T		AFN .	Conversión AFN a AFD							
6	ا) يع) ^ (2) E	<u> </u>	Estados AFN	o€*	ce*	£€. *				
· ·	(3)) 	ج مع		(o,1,3) = A	12,5,63=6	-	(4,5,6)=0				
Tabl	a de :	transi	cień		[2,5,63 = B	-	(1) = D	-				
	۵	Ł	c	€*	(4,5,63=0	_	(7) = D	-				
0	-	-	-	{0,1,0}	0 = 24	-	-	-				
١.	2	-	-	513	Final							
2	-	-	-	12,5,63	(A) (B)							
3	-	4	-	133								
ц	-	-	-	(4,5,6}								
5	-	-	-	(5,6)								
9	-	-	7	(6)								
7	_		_	(73								

b)

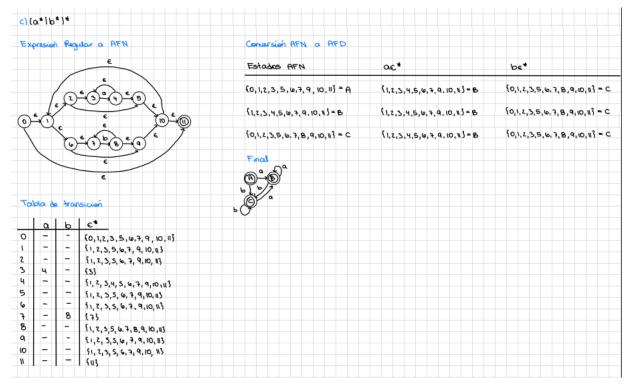


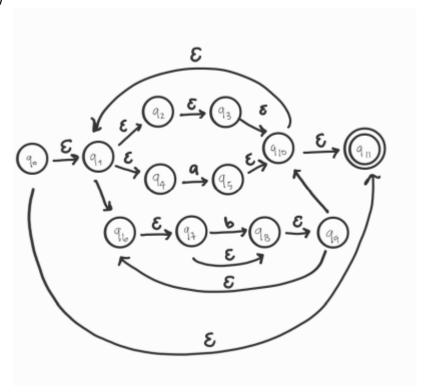
	а	b	٤*
q0	-	-	{q0,q1,q2,q4,q7}
q1	-	-	{q1,q2,q4}
q2	q3	-	{q2}
q3	-	-	{q3,q6,q1,q2,q4,q7}
q4	-	q5	{q4}
q5	-	-	{q5, q6, q1, q2, q4, q7}
q6	-	-	{q6, q1,q2, q4, q7}
q7	-	-	{q7}

Estados AFN		aɛ*		bɛ*	
{q0,q1,q2,q4,q7}	= A	{q3,q6,q1,q2,q4,q7}	= B	{q5,q6,q1,q2,q4,q7}	= C
{q3,q6,q1,q2,q4,q7}	= B	В		С	
{q5,q6,q1,q2,q4,q7}	= C	В		С	



c)



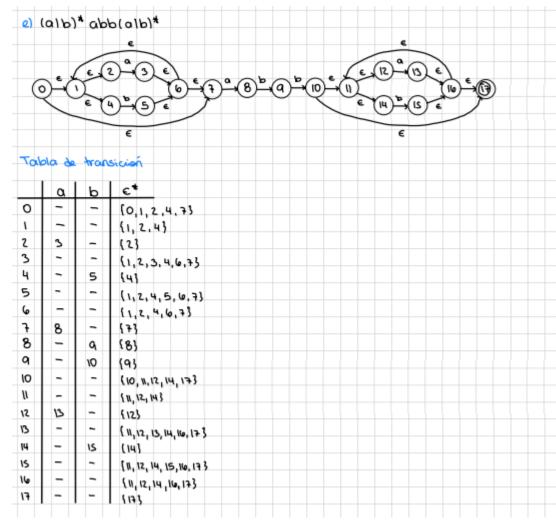


	a	٤*
q0	-	{q0,q1,q2,q3,q4,q6q7,q8,q9,q10q,11}
q1	-	{q1,q2,q3,q4,q6q7,q8,q9,q10q,11}
q2	-	{q2,q3,q10,q1,q4,q6,q7,q8,q9,q11}
q3	-	{q3,q10,q1,q2,q4,q6,q7,q8,q9,q11}
q4	q5	{q4}
q5	-	{q5,q10,q1,q2,q3,q4,q6,q7,q8,q9,q11}
q6	-	{q6,q7,q8,q9,q10,q1,q2,q3,q4,q11}
q7	-	{q7,q8,q9,q10,q1,q2,q3,q4,q6,q11}
q8	-	{q8,q9,q10,q1,q2,q3,q4,q6,q7,q11}
q9	-	{q9,q10,q1,q2,q3,q4,q6,q7,q8,q11}
q10	-	{q10,q1,q2,q3,q4,q6,q7,q8,q9,q11}
q11	-	{q11}

Estados AFN	aɛ*
${q0,q1,q2,q3,q4,q6q7,q8,q9,q10q,11} = A$	{q5,q10,q1,q2,q3,q4,q6,q7,q8,q9,q11} = B
$\{q5,q10,q1,q2,q3,q4,q6,q7,q8,q9,q11\} = B$	В



e)



Estados AFN	a∈*	b€*
(o, 1, 2, 4, 33 - A	(1,2,3,4,6,3,8) = 8	[1,2,4,5,6,73=C
(1,2,3,4,6,7,8} = B	(1,2,5,4,6,7,8)=B	(1,2,3,4,5,6,7,9) = 0
(1,2,4,5,6,7\$=C	(1,2,3,4,6,7,8)=8	(1,2,4,5,6,73=C
(1,2,3,4,5,6,7,Q) = D	(1,2,3,4,6,7,8) = B	(1,2,4,5,6,7,10,11,12,14,15,16,173 = E
(1,2,4,5,6,7,10,14,12,14,15,16,173 = E	(1,2,3,4,6,7,8,11,12,15,14,16,17) = F	(1,2,4,5,6,7, 1,12,14,15,16,175 = G
(1,2,3,4,6,7,8,11,12,12,14,16,173) = F	(1,2,3,4,6,7,8,4,12,15,14,16,17)===	(1,2,4,5,6,7,0,11,12,14,15,16,17) = 14
11,2,4,5,6,7,11,12,14,15,16,17 5 = 6	(1,2,5,4,6,7,8,1,12,15,14,16,17)= F	(1,2,4,5,6,7,1,12,14,15,16,17) = G
(1,2,4,5,6,7,0,11,12,14,15,16,17) = 1+	(1,2,3,4,6,3,8,8,12,13,14,16,17) = F	(1,2,4,5,6,7,10,11,12,14,15,16,17 }= 1
(1,2,4,5,6,7,10,11,12,14,15,16,173=1	61,2,2,4,6,7,8,11,12,15,14,16,17}=F	[1,2,4,5,6,7, 11,12,14,15,16,17] = 6

 $0 \stackrel{?}{\circ} (4i) \stackrel{?}{\circ} 0_{4}$

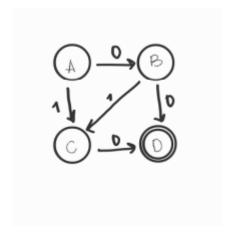
	0	1	٤*
an			{q0,q1, q3,
q0 -		-	q4,q5,q6,q8,q9,q10,q11,q13}
q1	q2	-	{q1}
q2	-	-	{q2,q3,q4,q5,q6,q8,q9,q10,q11,q13}
q3	-	-	{q3,q4,q5,q6,q8,q9,q10,q11,q13}
q4	-	-	{q4,q5,q6,q8,q9,q10,q11,q13}
q5	-	-	{q5,q6,q8,q9,q10,q11,q13}
q6	-	q7	{q6}
q7	-	-	{q7,q8,q9,q10,q11,q13}
q8	-	-	{q8,q9,q10,q11,q13}
q9	-	-	{q9,q10,q11,q13}
q10	-	-	{q10,q11,q13}
q11	q12	-	{q11}

f)

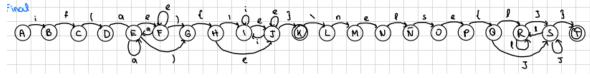
 q12
 {q12,q11,q13}

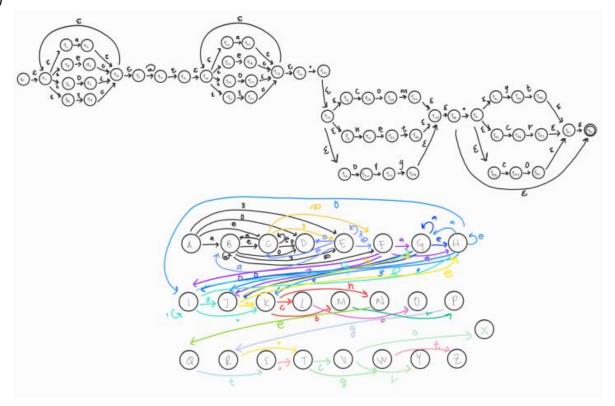
 q13
 {q13}

Estados AFN		0ε*	1ε*			
{q0,q1, q3, q4,q5,q6,q8,q9,q10,q11,q13}	= A	{q2,q3,q4,q5,q6,q8,q9,q10,q11,q12q,13}	= B	{q7,q8,q9,q10,q11,q13}	= C	
{q2,q3,q4,q5,q6,q8,q9,q10,q11,q12q,13}	= B	{q12,q13}	= D	С		
{q7,q8,q9,q10,q11,q13}	= C	D		-		
{q12,q13}	= D	-		-		



abla de transición														
	1 1		-	a	е)	- {	3	1	n	L	8	1	£*
0	1		,			,							,	{0}
				-					-				-	
1	- 3		-	-	-	-				-	-	-	-	{1}
2	-		3	-	-	-	-		-	-	-	-	-	{2}
3			-	-		-			-					{3,4,5,6,8}
4									-					{4,5,6,8}
5														
			-	-		-			-					{5,6,8}
6				7		-								(6)
7					9									(5,6,7,8,10,11)
8														(8)
9														(5,6,8,9,10,11)
						-								
10														{5,6,8,10,11}
11						12								(11)
12				-		-	13							{12}
13														(13, 14, 15, 16, 18)
						-								
14														{14,15,16,18}
15														{15,16,18}
16	-		-	-	17	-	-	-		-	-		-	{16}
17			-	-		-								{15,16,17,18,20,2
18	19				_					_				
	13													{18}
19														(15,16,18,19,20,2
20														(15,16,18,20,21)
21								22						(21)
22														(22,23,38)
23									24					{23,38}
24										25				{24}
25				-	26	-								(25)
26					2.0						2	7		{26}
			-	-	-	-	-	-	-	-			-	
27			-	-		-					-	28	-	{27}
28			-	-	29	-			-		-			{28}
29			-	-		-	30		-					{29}
30							-							{30,31,32,33,35}
				-		-		-	-	-				
31				-		-			-				-	{31,32,33,35}
32			-			-			-	-			-	{32,33,35}
33			-	-		-			-				34	{33}
34														{32,33,34,35,37,3
											700			
35			-	-		-			-		36			{35}
36	-		-	-		-	-	-	-	-	-	-	-	{32,33,35,36,37,3
37			-	-	-	-				-	-		-	{37,38}
38			-	-		-		39	-					{38}
39														(39)
99	-		-	-		-		-	-			-	-	[99]
Conversion AFN a AFD														
Estados AFN	it*	fe*	(8*	86*		65°)6°°	{e*	je*	18*	ne*	le*	56*	je*
{0} = A	(1) = 8		-	-		-	-	0.2	0.70	14	- 4	20	12	
(1) = B		{2} = C							*					
(2) = C	- 3	-	{3,4,5,6,8} = €											
{3,4,5,6,8} = D {5,6,7,8,10,11} = E	- 3	-		{5,6,7,8,10,11}	-5 000	9,10,11)=F	1100 - 0	- 1		- 1		- 5	- 3	180
			14.	(5,6,7,8,10,11)	-t (5,6,8,		(12) = G		-		-	-	-	
{5,6,8,9,10,11} = F {12} = G	- 1	-	-	(5,6,7,8,10,11)	- E (0,6,8,	3,10,11)=+	(12) = G	(13,14,15,16,18) = H		- 1				(5)
(12) = G (13,14,15,16,18) = H	115 16 18 19 30 511 -				115.10 .	7,18,20,21}=J	- 1	(10,14,15,16,18) = H	1	- 6	-		- 5	
15,16,18,19,20,21)=1	(15,16,16,19,20,21) = (15,16,18,19,96,91) =		- 0		(10,16,1	7,18,20,21)=3 7,18,20,21}=3			(22,23,38) = K					
(5,16,17,18,20,21)=1	(15.16.18.19.20,21)**	1			(15.16.1	7,18,20,21}=J			(22,23,38) = K					
{22,23,39} = K					[10/10/1	- independent - 1			Inerening - F	(24) = L				
(24) = L	1		1						20	de-A-F	{25} = M	41	-	
(25) = M						26) = N		- 3		10	froi			
{26} = N						. "			-			{27} = Ñ		
(27) = Ñ	12		- 6			0			- 2	12	1		(28) = O	
(28) = O	12	-	2		- 1	29) = P			- 2		12			
(29) = P	- 2	-						(30,31,32,33,35) = Q		- 1	-			
[30,31,32,33,35] = Q												(32,33,35,36,37,38) = R		(32,33,34,35,37,38) = S
32,33,35,36,37,38) = R												(32,33,35,36,37,38) = R		(32,33,34,35,37,38) = S
32,33,34,35,37,38) = S						(4)			(39) = T			{32,33,35,36,37,38} = R		(32,33,34,35,37,38) = \$
[39] = T	-	- 4				(A)								
1000	1 1								1 1				1	
							1 1							
od			e	、 {			e 1			Q		e {	g	3 3





0	m	n	t	r	g	٤*
-	-	-	-	-	-	{q0,q1,q2,q4,q6,q8}
-	-	-	-	-	-	{q1,q2,q4,q6,q8}
-	-	-	-	-	-	{q2}
-	-	-	-	-	-	{q3,q10,q1,q2,q4,q6,q8,q11}
-	-	-	-	-	-	{q4}
-	-	-	-	-	-	{q5,q10,q1,q2,q4,q6,q8,q11}
-	-	-	-	-	-	{q6}
-	-	-	-	-	-	{q7,q10,q1,q2,q4,q6,q8,q11}
-	-	-	-	-	-	{8p}
-	-	-	-	-	-	{q9, q10,q1,q2,q4,q6,q8,q11}
-	-	-	-	-	-	{q10,q1,q2,q4,q6,q8,q11}
-	-	-	-	-	-	{q11}
-	-	-	-	-	-	{q12,q13,q14,q15,q17,q19,q21}
-	-	-	-	-	-	{q13,q14,q15,q17,q19,q21}
-	-	-	-	-	-	{q14,q15,q17,q19,q21}
-	-	-	-	-	-	{q15}
-	-	-	-	-	-	{q16,q23,q14,q15,q17,q19,q21,q24}
-	-	-	-	-	-	{q17}
-	-	-	-	-	-	{q18,q23,q14,q15,q17,q19,q21,q24}
-	-	-	-	-	-	{q19}
-	-	-	-	-	-	{q20,q23,q14,q15,q17,q19,q21,q24}

-	_	_	_	_	_	{q21}					
_	_	_	-	_	_	{q22,q23,q14,q15,q17,q19,q21,q24}					
_	-	_	-	_	_	{q23,q14,q15,q17,q19,q21,q24}					
_	-	_	-	_	_	{q24}					
_	-	_	-	-	_	{q25,q26,q27,q31,q35}					
_	-	_	-	_	_	{q26,q27,q31,q35}					
_	-	_	-	-	-	{q27}					
q29	-	-	-	-	-	{q28}					
-	q30	-	-	-	-	{q29}					
-	· -	q32	-	-	-	{q30,q39,q40}					
-	-	-	-	-	-	{q31}					
_	-	-	-	-	-	{q32}					
-	-	-	q34	-	-	{q33}					
-	-	-	-	-	-	{q34,q39,q40}					
q36	-	-	-	-	-	{q35}					
-	-	-	-	q37	-	{q36}					
-	-	-	-	-	q38	{q37}					
-	-	-	-	-	-	{q38,q39,q40}					
-	-	-	-	-	-	{q39,q40}					
-	-	-	-	-	-	{q40}					
-	-	-	-	-	-	{q41,q42,q45,q48,q52}					
-	-	-	-	-	q43	{q42}					
-	-	-	q44	-	-	{q43}					
-	-	-	-	-	-	{q44,q51,q52}					
-	-	-	-	-	-	{q45}					
-	-	-	-	q47	-	{q46}					
-	-	-	-	-	-	{q47,q51,q52}					
-	-	-	-	-	-	{q48}					
q50	-	-	-	-	-	{q49}					
-	-	-	-	-	-	{q50,q51,q52}					
-	-	-	-	-	-	{q51,q52}					
_	-	-	-	-	-	{q52}					

Estados AFN		ās*	es*	0e*	3e**	arrobas*	.ε*	CE"	0E*	me*	ns*	te*	ΓE [™]	ge*
{q0,q1,q2,q4,q6,q8}	= A	{q3,q10,q1,q2,q4,q6,q8,q11} = E	3 {q5,q10,q1,q2,q4,q6,q8,q11} = C	{q7,q10,q1,q2,q4,q6,q8,q11} = E	q9,q10,q1,q2,q4,q6,q8,q11} = E	-		-	-	-	-	-	-	-
{q3,q10,q1,q2,q4,q6,q8,q11}	= B	В	C	D	E	{q12,q13,q14,q15,q17,q19,q21} = F		-	-	-	-	-	-	-
{q5,q10,q1,q2,q4,q6,q8,q11}	= C	В	C	D	E	F		-	-	-	-	-	-	
{q7,q10,q1,q2,q4,q6,q8,q11}	= D	В	C	D	E	F	-	-	-	-	-	-	-	-
{q9,q10,q1,q2,q4,q6,q8,q11}	- E	В	C	D	E	F		-	-	-	- 1	-	-	
{q12,q13,q14,q15,q17,q19,q21}		q16,q23,q14.q15,q17,q19,q21,q24) = G	i{q18, q23,q14.q15,q17,q19,q21,q24; = H	[q20,q23,q14,q15,q17,q19,q21,q24] =	{q22,q23,q14,q15,q17,q19,q21,q24} = J	-	-	-	-	-	-	-	-	-
{q16,q23,q14.q15,q17,q19,q21,q2		G	н	1	J	-	q25,q26,q27,q31,q35 = K	-	-	-	-	-	-	-
{q18, q23,q14.q15,q17,q19,q21,q2		G	Н	1	J	-	K	-	-	-	-	-	-	-
{q20,q23,q14,q15,q17,q19,q21,q2		G	н	1	J	-	K	-	-	-	-	-	-	-
{q22,q23,q14,q15,q17,q19,q21,q2	() = J	G	Н	1	J	-	K	-	-	-	-	-	-	-
{q25,q26,q27,q31,q35}	= K	-	-	-	-	-	-	{q28} = L	. {q36} = M	- 1	{q32} = N	-	-	-
{q28}	- L	-	-	-	-	-		-	{q29} = 0	- 1	-	-	-	
(q36) (q32) (q37) (q33)	= M	-	-	-	-	-	-	-	-	-	-	-	{q37} = F	1 -
{q32}	= N	-	{q33} = Q	-	-	-		-	-	-	-	-	-	-
{q37}	= P	-	-	-	-	-		-	-	-	-	-		q38,q39,q40,q52 = F
{q33}	= Q	-	-	-	-	-	-	-	-	-	-	q34,q39,q40,q52 = S	-	-
{q38,q39,q40,q52}	= R	-	-	-	-	-	{q41,q42,q45,q48} = T	-	-	-	-	-	-	
{q34,q39,q40,q52}	= S	-	-	-	-	-	T	-	-	-	-	-	-	-
{q41,q42,q45,q48}	- T	-	-	-	-	-		(q46,q49) = V	1 -	-	-	-	-	{q43} = W
{q46,q49}	= V	-	-	-	-	-	-	-	(q50,q51,q52) = X	-	-		(q47,q51,q52) = Y	1 -
{q43}	= W	-	-	-	-	-		-	-	-	-	$\{q44,q51,q52\} = 2$		-
{q50,q51,q52}	= X	-	-	-	-	-	-	-	-	-	-	-	-	-
{q47,q51,q52}	= Y	-	-	-	-	-	-	-	-	-	-	-	-	-
{q44,q51,q52}	= Z	-	-	-	-	-		-	-	-	-	-	-	-