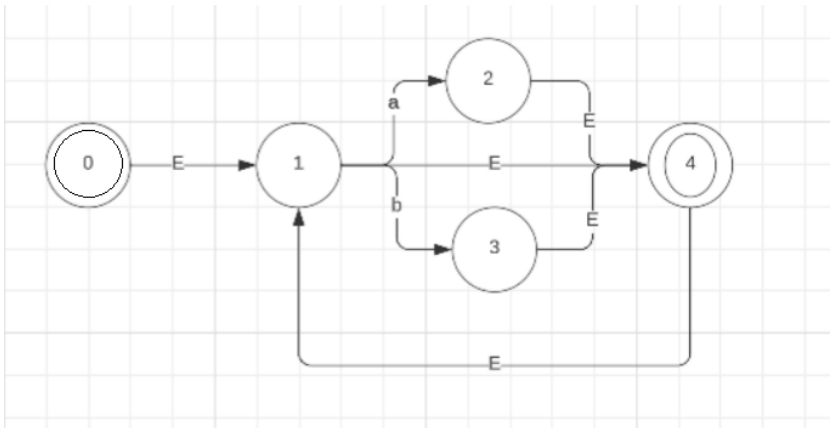


Ejercicio 1

(a/b)*



AFD

Cerradura -e (0)= {0;1;4}=A

Mueve (A;a)={2}

Cerradura -e {2}= {2;4;1}=B

Mueve (A;b)= {3}

Cerradura -e {3}={3;4;1}=C

Mueve (B;a)={2}

Cerradura -e {2}= {2;4;1}=B

Mueve (B;b)= {3}

Cerradura -e {3}={3;4;1}=C

Mueve (C;a)= {2}

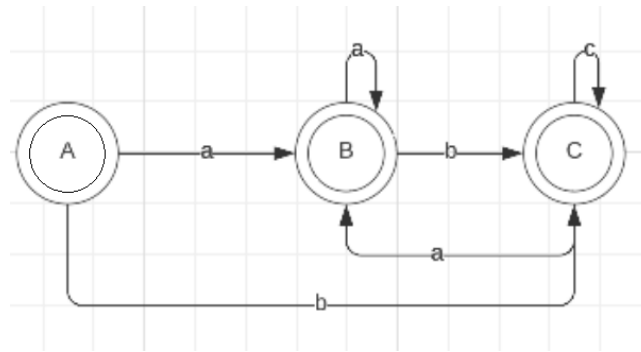
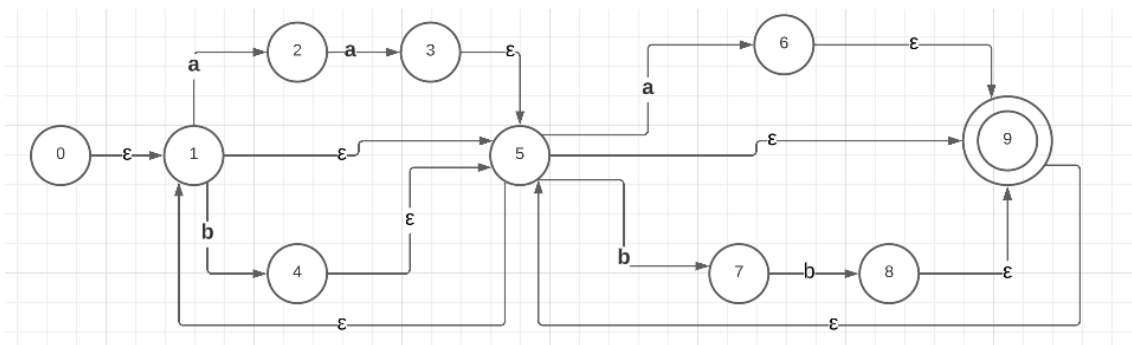
Cerradura -e{2}= {2;4;1}=B

Mueve (C;b)= {3}

Cerradura -e{3}= {3;4;1}=C

Estados	a	b
A	B	C
B	B	C
C	B	C

Autómatas y Gramáticas

**Ejercicio 2** $(aa/b)^*(a/bb)^*$ 

Cerradura -e (s)

Cerradura -e(T)

Mueve (T, a) = {0}

Cerradura -e (0) = {0; 1; 5; 9} = A = estado final

Mueve (A; a) = {2; 6}

Cerradura -e {2; 6} = {1, 2, 5, 6, 9} = B = estado final

Mueve (A; b) = {4; 7}

Cerradura -e {4; 7} = {1, 4, 5, 7, 9} = C = estado final

Mueve (B; a) = {2, 3, 6}

Cerradura -e {2, 3, 6} = {1, 2, 3, 5, 6, 9} = D = estado final

Mueve (B; b) = {4, 7}

Cerradura -e {4, 7} = {1, 4, 5, 7, 9} = C

Mueve (C; a) = {2, 6}

Cerradura -e {2; 6} = B = estado final

Mueve (C; b) = {4, 7, 8}

Cerradura -e {4, 7, 8} = {1, 4, 5, 7, 8, 9} = E = estado final

Autómatas y Gramáticas

Mueve (D;a)={2, 3, 6}

Cerradura -e{2, 3, 6} = D

Mueve (D;b)={4, 7}

Cerradura -e{4, 7}=C= estado final

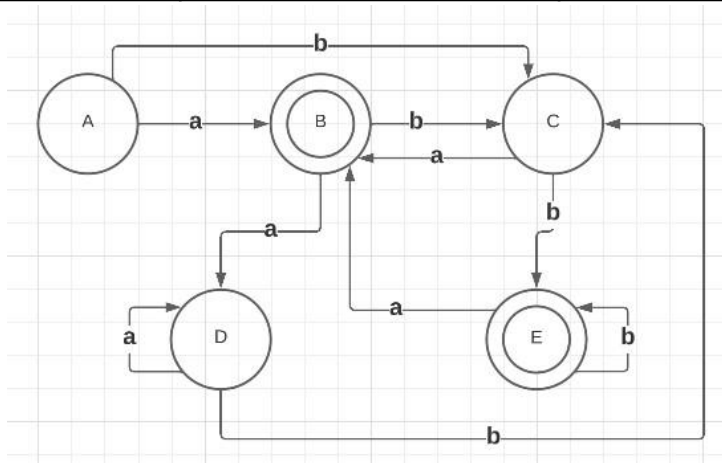
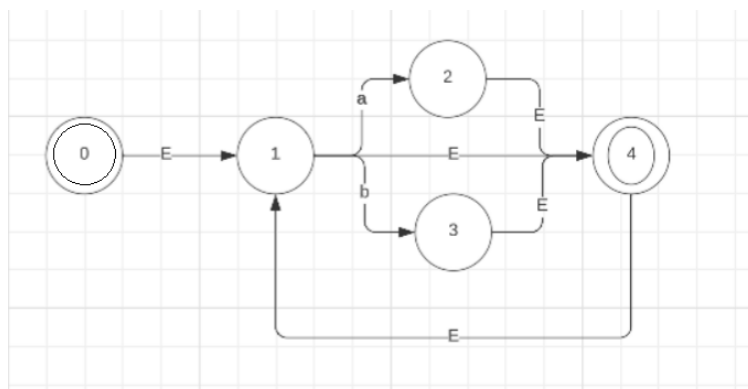
Mueve (E, a): {2, 6}

Cerradura -e{2, 6} = B

Mueve (E, b) = {4, 7, 8}

Cerradura {4, 7, 8} = E

Estados	a	b
A	B	C
B	D	C
C	B	E
D	D	C
E	B	E

**Ejercicio 3:**

AFD

Cerradura -e (0)= {0;1;4}=A

Autómatas y Gramáticas

Mueve (A;a)={2}

Cerradura -e {2}={2;4;1}=B

Mueve (A;b)={3}

Cerradura -e {3}={3;4;1}=C

Mueve (B;a)={2}

Cerradura -e {2}={2;4;1}=B

Mueve (B;b)={3}

Cerradura -e {3}={3;4;1}=C

Mueve (C;a)={2}

Cerradura -e {2}={2;4;1}=B

Mueve (C;b)={3}

Cerradura -e {3}={3;4;1}=C

Estados	a	b
A	B	C
B	B	C
C	B	C

