Ejercicio 6 y 7

ε closure (0) = A

ε closure (mueve){A, Letter} = ε id 1 = {1, 2, 3, 4, 6, 9} = B

ε closure (mueve){B, Letter} = ε {5} = {5, 8, 3, 6, 4, 9} = C

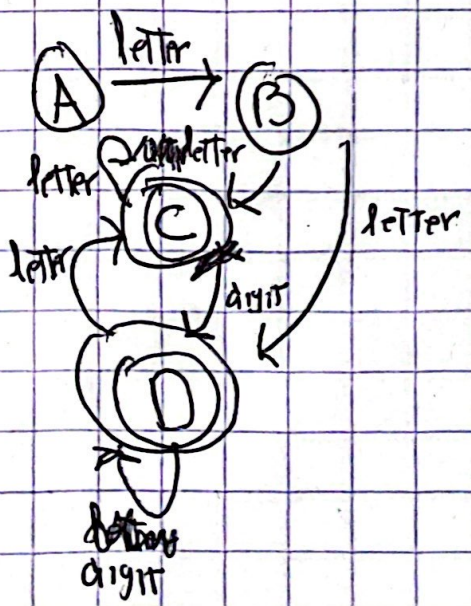
ε closure {B, digit} = {7, 8, 3, 6, 4, 9} = D

ε closure {C, letter} = ε (5) = C

ε closure (C, digit) = ε (7) = D

ε closure (D, letter) = ε {5} = C

ε closure (D, digit) = ε 7 = D



Ejercicio 2

$q_1 = \varepsilon + q_3 a + q_1 a$

$q_2 = q_1 b + q_2 b + q_3 b$

$q_3 = q_2 a$

$q_2 = q_1 b + q_2 b + q_2 a(b)$

$q_2 = q_1 b + q_2 (b + ab)$

$q_2 = q_1 b (b + ab)^*$

$q_1 = \varepsilon + q_1 ab (b+ab)^* + q_1 a$

$q_1 = \varepsilon + q_1 ab((b+ab)^* + a)$

$q_1 = \varepsilon ab((b+ab)^* + a)^*$

$q_1 = ab((b+ab)^* + a)^*$

$q_1 = ab((b|ab)^* | aa)^*$