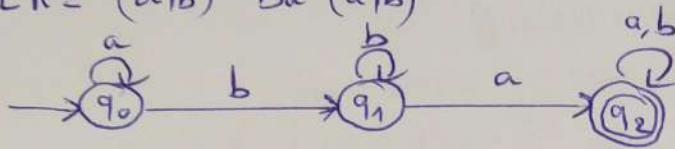


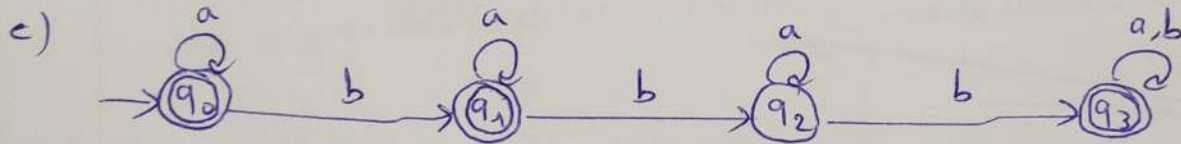
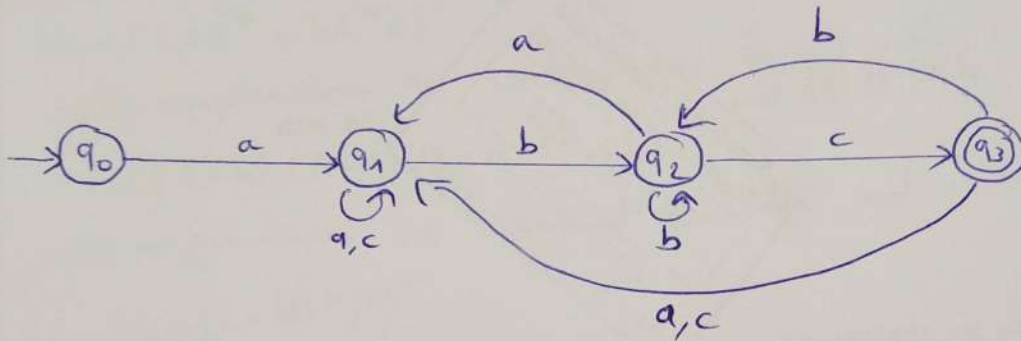
TD1: Analyse lexicale :

Exercice 3:

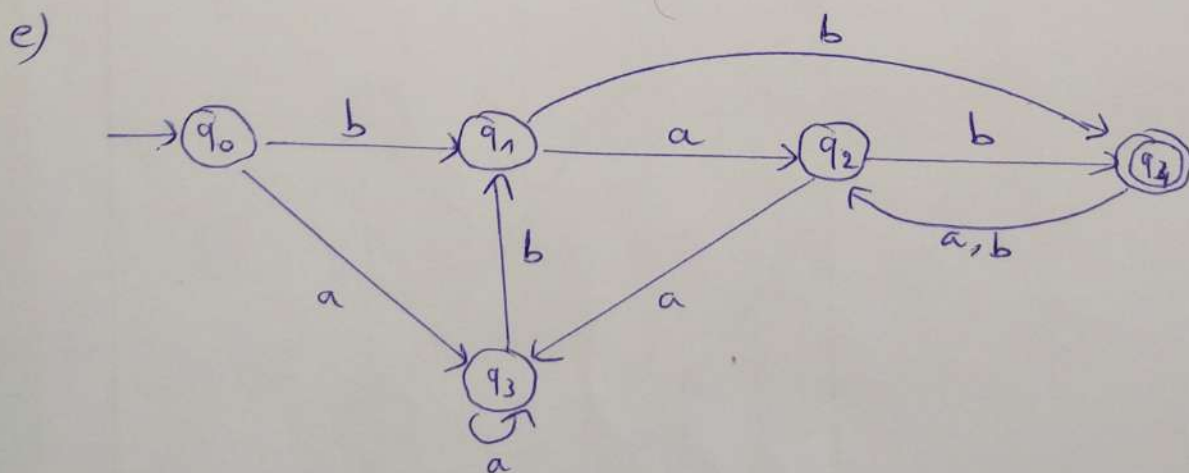
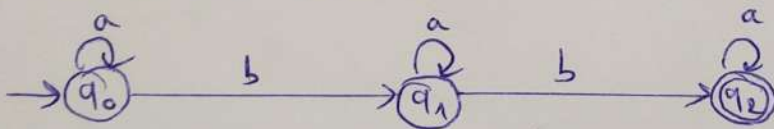
a) $ER = (a|b)^* ba (a|b)^*$



b) $ER = a(a|b|c)^* bc$



d) $ER = a^* b a^* b a^*$



f)

Question 2:

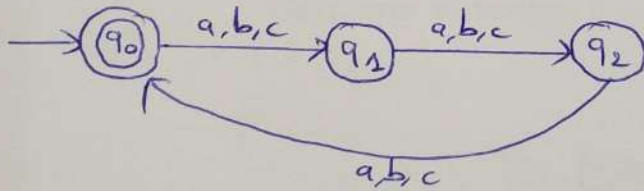
$$ER = (ab)^* a?c^* + (ba)^* b?c^*$$

Question 3:

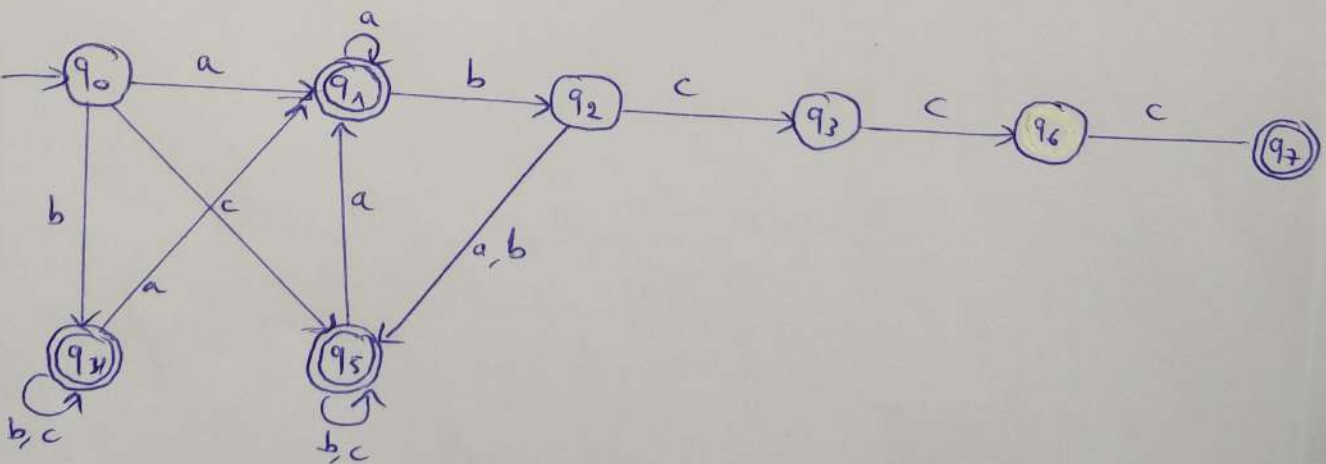
- $(a+ab^*)^* + b(a+(b+aba)^*)^*$
cette expression contient le mot vide.
- $(1+a)(aa^*+bb^*a)^*$
cette expression ne contient pas le mot vide.
- $(1+a)(1+b)(1+c)(1+d)(e+f)$
cette expression ne contient pas le mot vide.
- $(a+(b+(c+d)^*)^*)^*$
cette expression contient le mot vide.

Exercice 4:

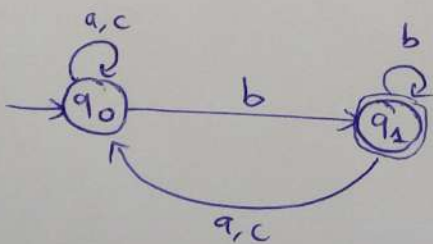
a)



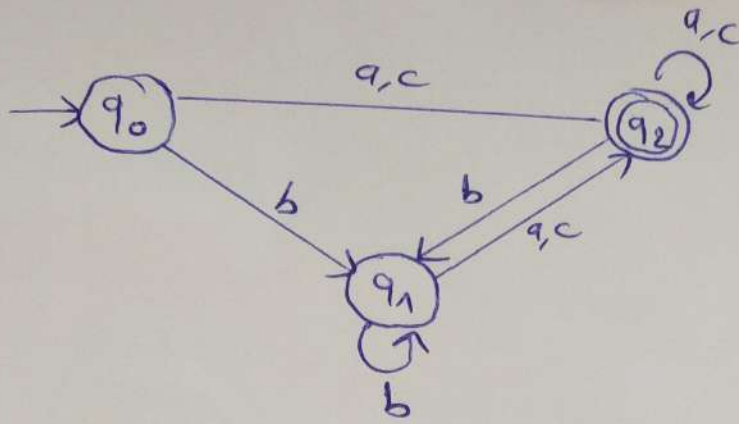
b)



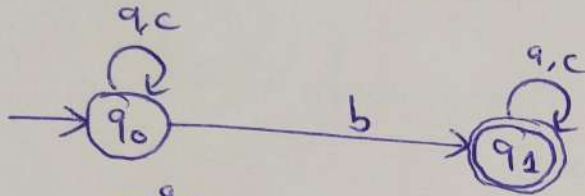
c)



d)



e)



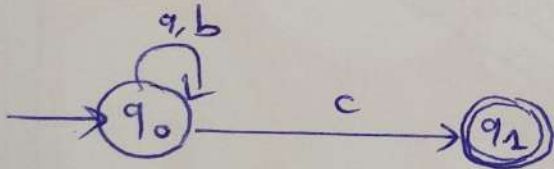
f)



h)

Exercice 6:

a) $(a+b)^*c$



b) $a^*(\epsilon + bb)a + \epsilon$

