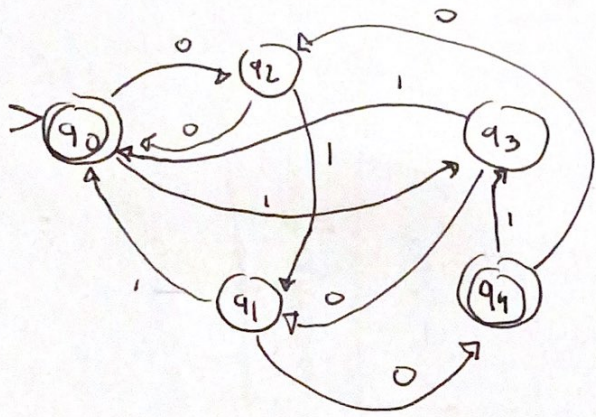
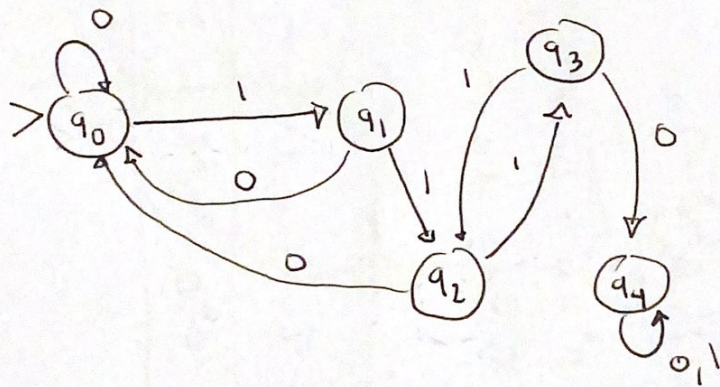


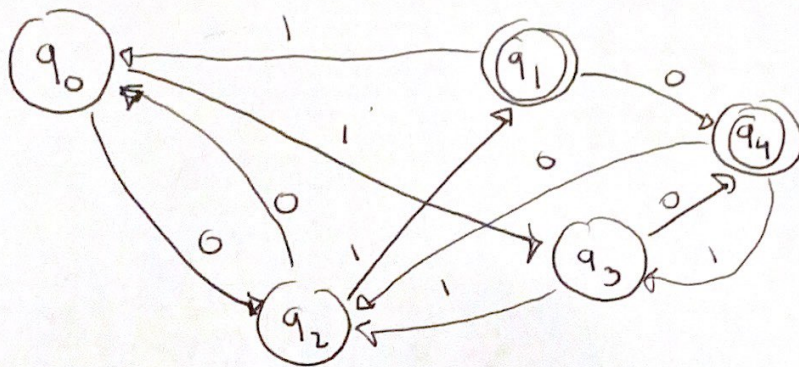
a) $\{0,1\}^*$ LP que no termina con 01



b) $\{0,1\}$

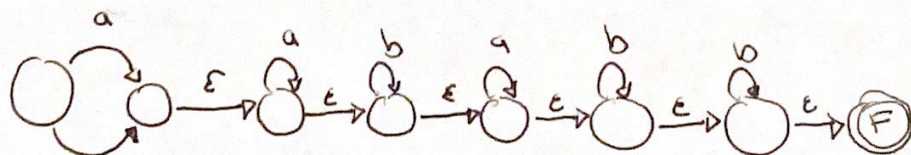
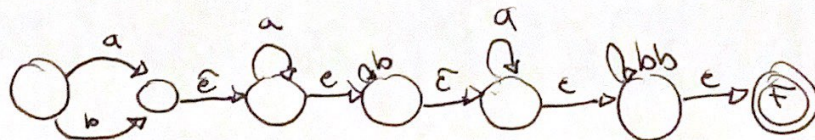
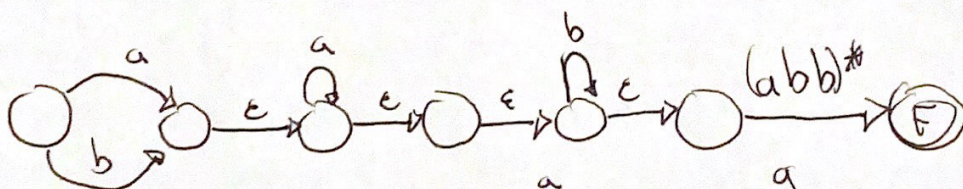
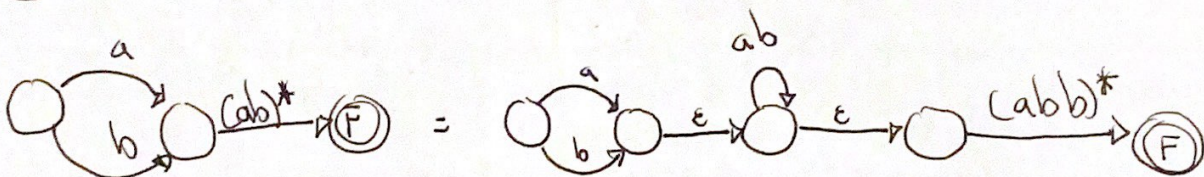
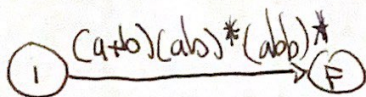


c) Union de A_1 y A_2

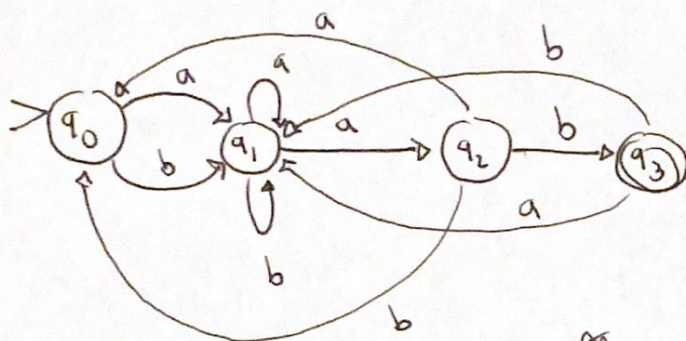


2)

a) $(a+b)(ab)^*(abb)^*$



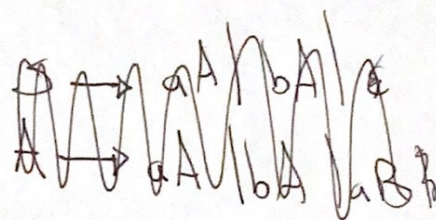
2) $(a+b)(ab)^*(abb)^*$



$S \rightarrow \epsilon \mid A$

$A \rightarrow aB \mid bB$

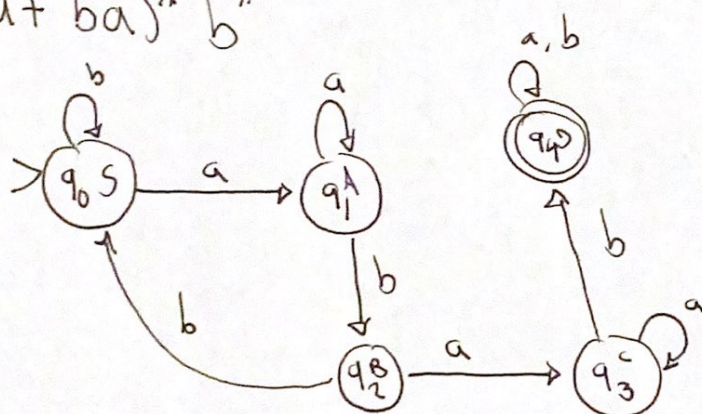
$B \rightarrow aC \mid bC$



$C \rightarrow aB \mid bD$

$D \rightarrow aB \mid bB$

2) $b^*(a+ba)^*b^*$



~~Handwritten scribbles~~

$S \rightarrow bC \mid aA$

$A \rightarrow aA \mid bB$

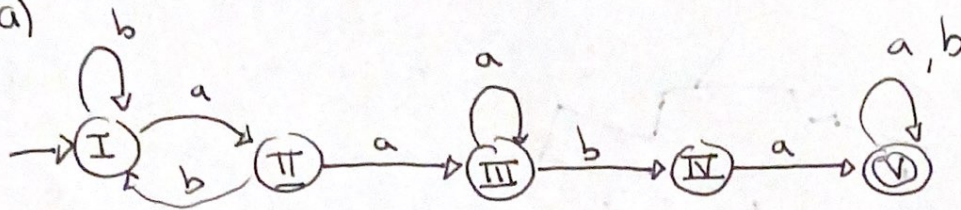
$B \rightarrow bD \mid aC$

$C \rightarrow b \mid aC \mid bD$

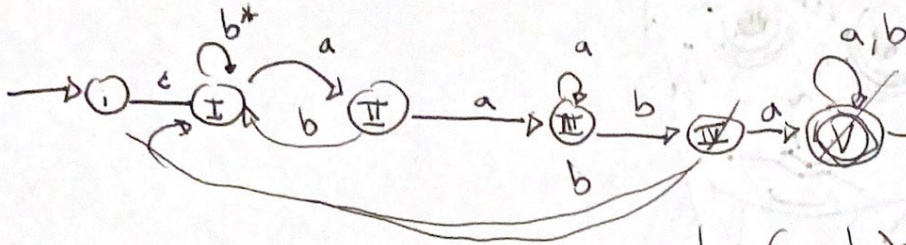
$D \rightarrow a \mid b$

3)

a)

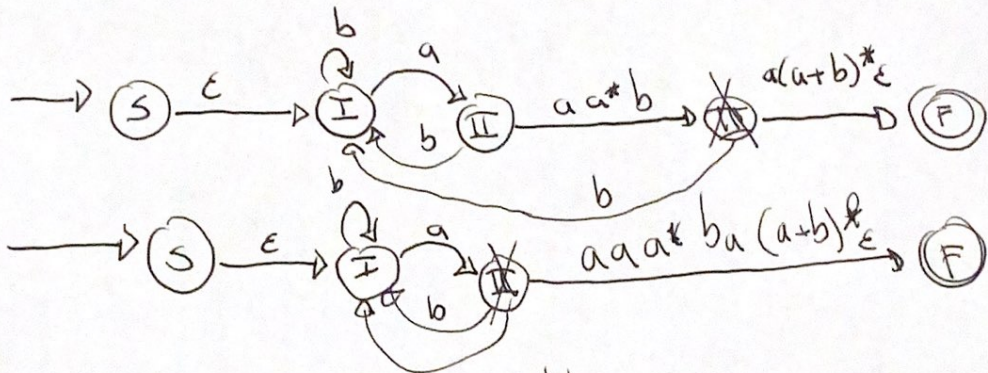


$I \rightarrow bI \mid aII$
 $II \rightarrow bI \mid aIII$
 $III \rightarrow aIII \mid bIV$
 $IV \rightarrow a$
 $V \rightarrow a \mid b$



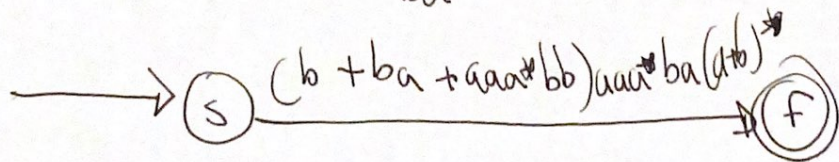
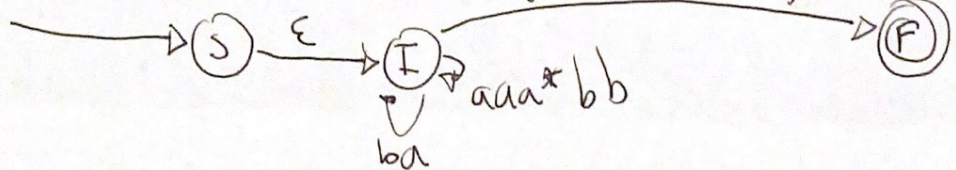
~~$(a+b)^* \epsilon$~~

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

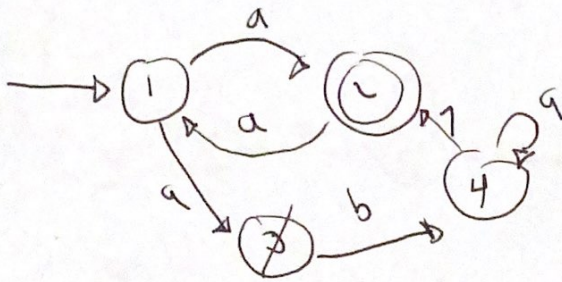


$a a^* b b$

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



b)



$1 \rightarrow a \mid a^2 \mid a^3$

$2 \rightarrow a \mid \epsilon$

$3 \rightarrow b^4$

$4 \rightarrow a^4 \mid \epsilon^2$

