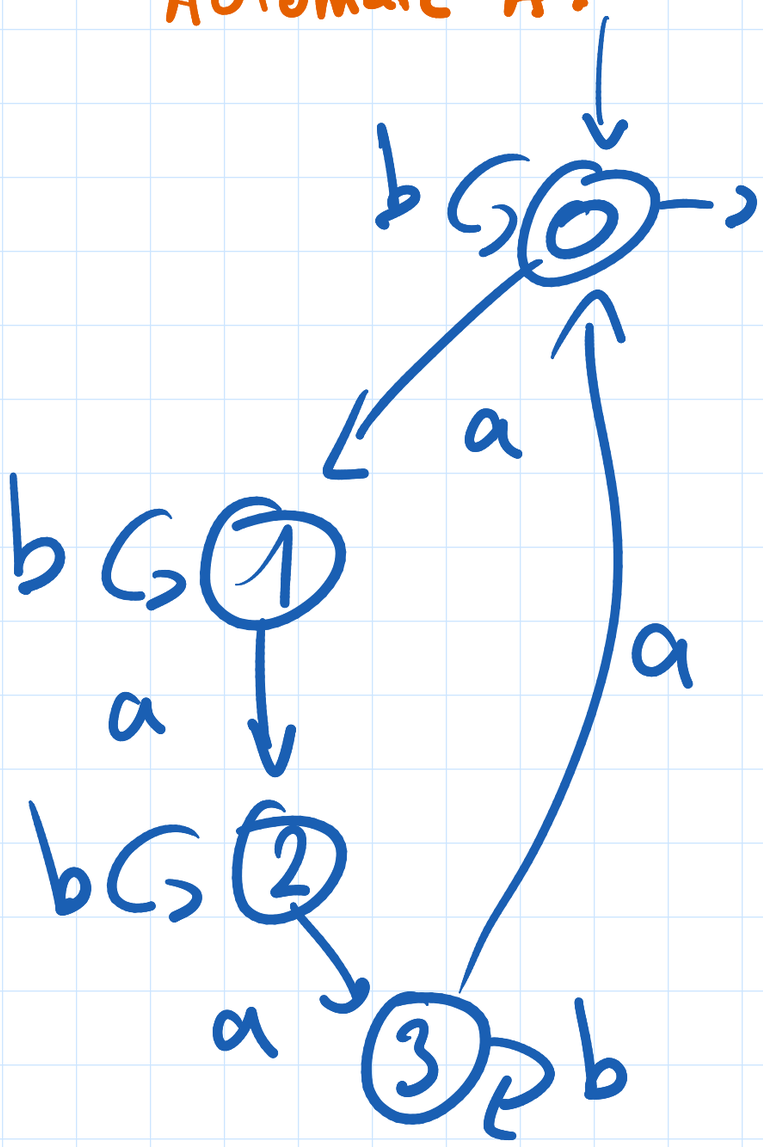
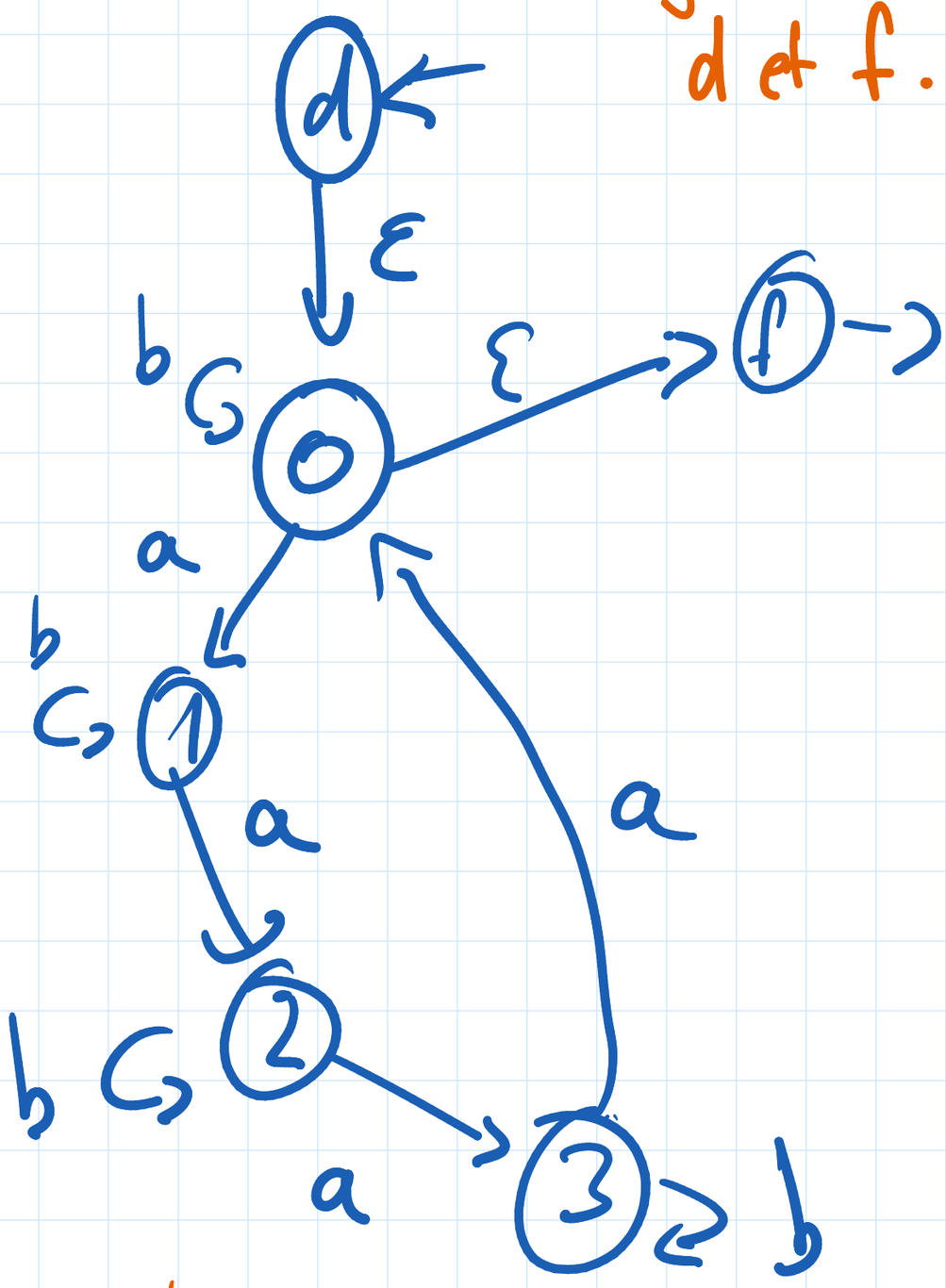
Exercice 2.

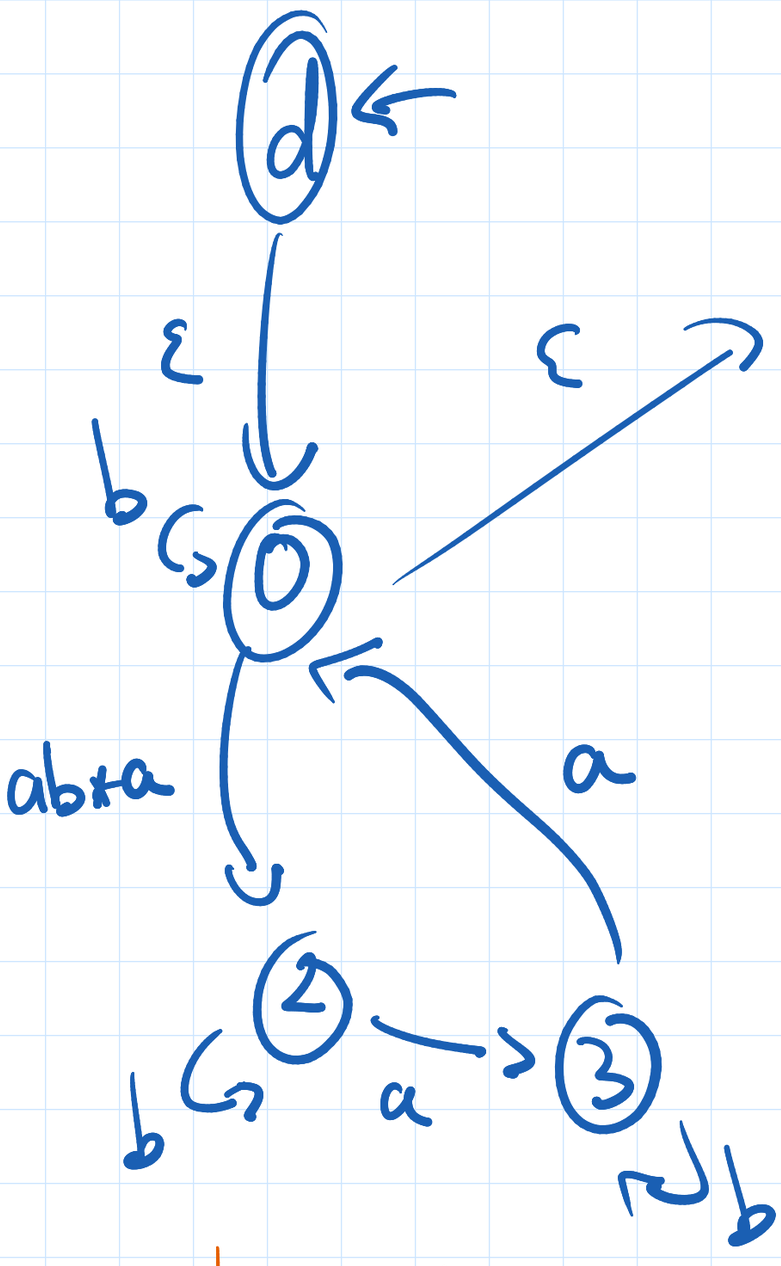
Automate A.



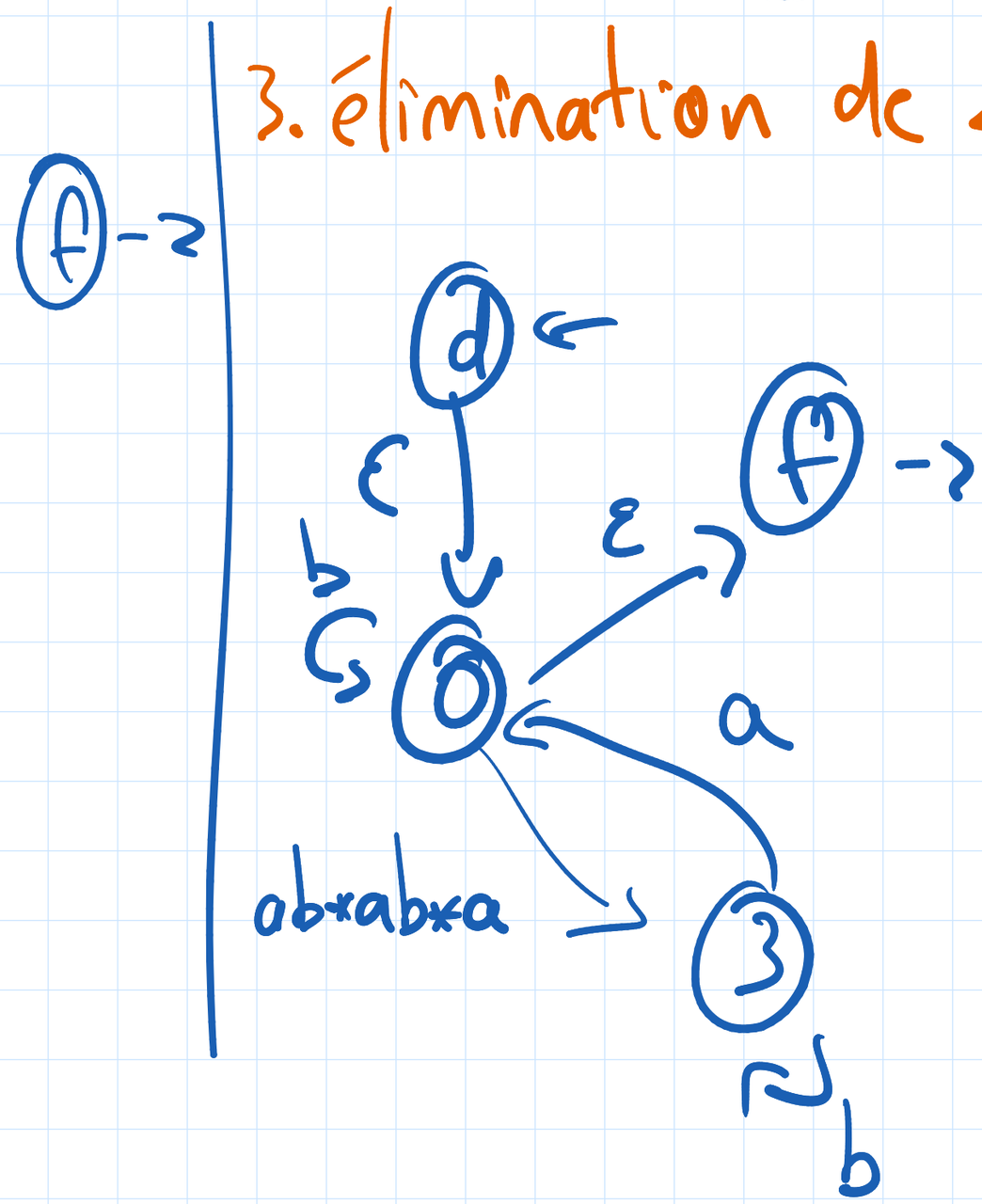
1. ajout des états d et f.



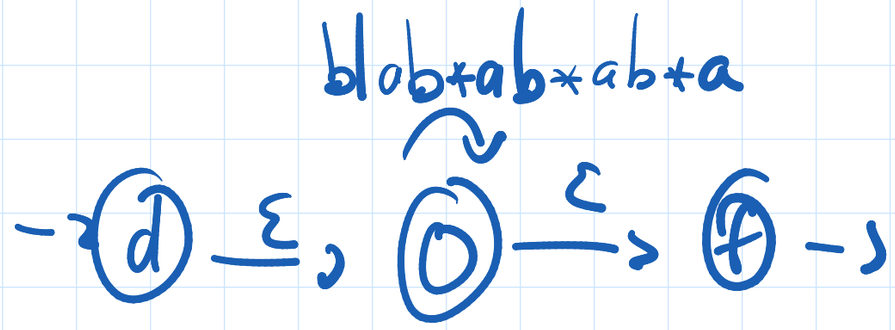
2. élimination de 1



3. élimination de 2

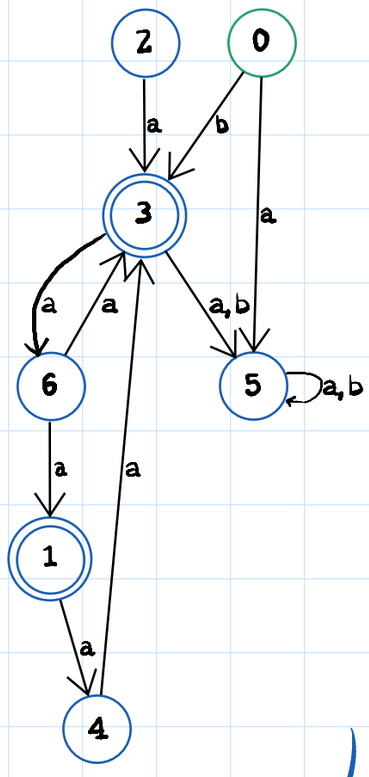


4. élimination de 3.

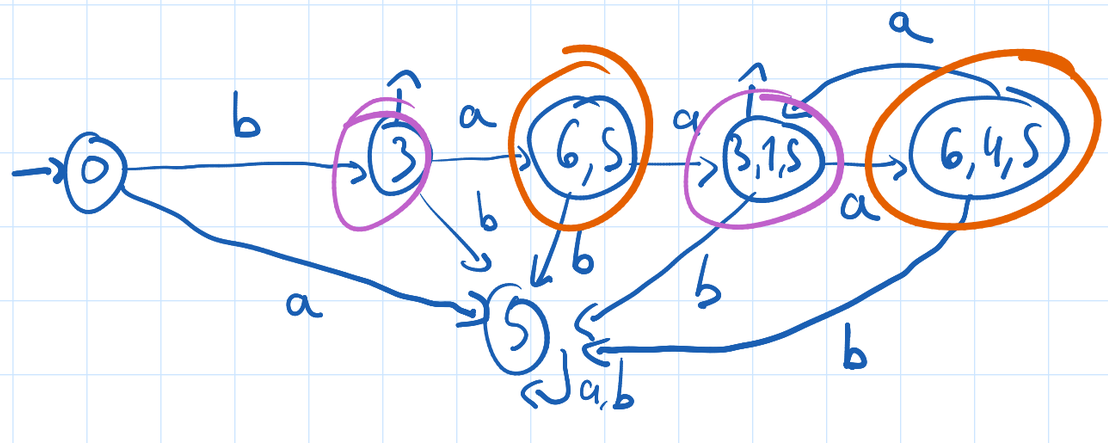


Avec l'automate 4., il vient que A calcule $(b|ab^*ab^*ab^*a)^*$

Exercice 3



états	a	b
0	S	3
S	S	S
3	6,S	S
6,S	3,1,S	S
3,1,S	6,4,S	S
6,4,S	3,1,S	S



Le langage associé est $b(aaa)^*$

- 0 . $\{v \in \Sigma^* \mid uv \in L$ avec u les mots acceptés par 0$\}$

  -> $\varepsilon^{-1}L = L$

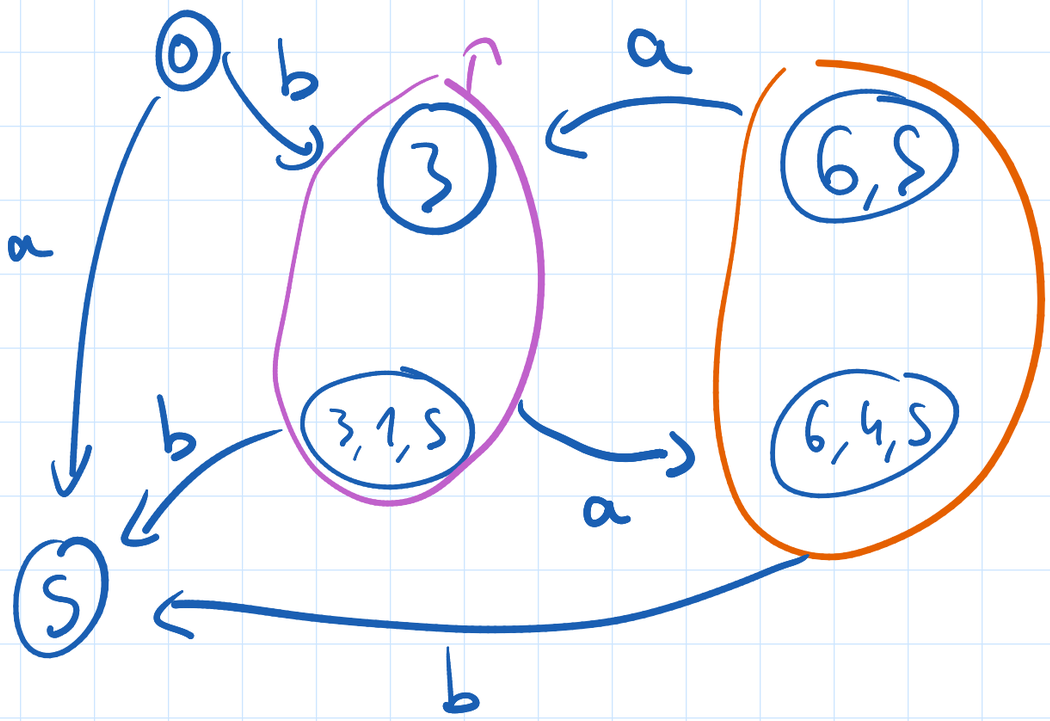
- 3. $b^{-1}L = (aa)^*$

-> S . $(ab)^{-1}L = \emptyset$

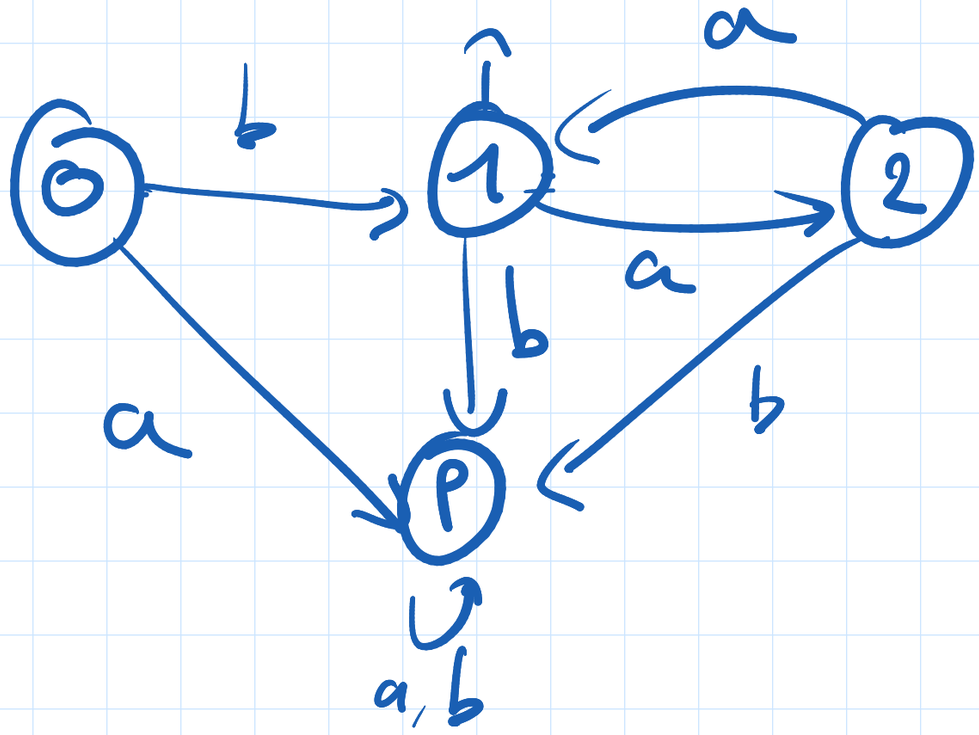
-> 6,S . $(ba)^{-1}L = a(aa)^*$

-> 3,1,S . $(baa)^{-1} = (aa)^*$

-> 6,4,S . $(baaa)^{-1} = a(aa)^*$



≡



Les 4 résidels du langage calculé par A sont:

- 0 -> $\varepsilon^{-1}L = L$
- 1 -s $b^{-1}L = (aa)^*$
- p -> $(ab)^{-1}L = \emptyset$
- 2 -s $(ba)^{-1}L = a(aa)^*$