

## Reminder about guidelines and some advices/remarks

- Duration : 2 hours (2 :00pm  $\rightarrow$  4 :00pm).
- No exit before 30 minutes.
- No entry after 30 minutes.
- 3 sheets of double-sided A4 paper are authorized.
- Any electronic device is forbidden (calculator, phone, tablet, etc.).
- **Care of your submission will be taken into account (-1 point if there is a lack of care).**
- Exercises are independent.
- The grading scale is indicative.
- The exam has 22 points, you need 20 points to get the maximal grade.

### Solution de l'exercice 4

1. Deux mots dans  $L$  sont  $aba$  et  $b$ . Deux mots dans  $\Sigma^* \setminus L$  sont  $abab$  et  $ab$ .
2. Oui. Un automate reconnaissant  $L$  est donné ci-dessous.

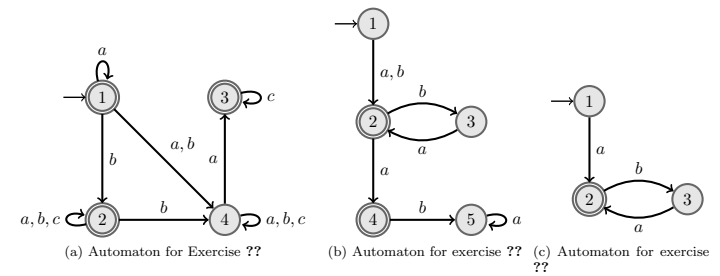
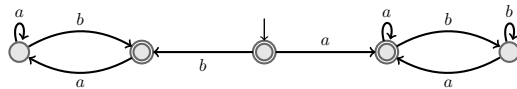


FIGURE 1 – Automata for the exercises