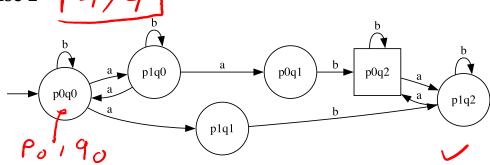
Exercise 1

- Group 1: a, &d, g, i, j, k
- Group 2: b, e, **f/**h

Please write your





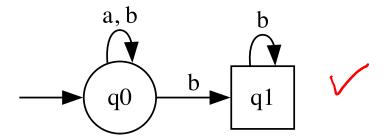
Exercise 3 7

Language L_1

(6)|3/3|(c)|3/3

Part A

Part B



Part C

$$\begin{split} L_1 &= \left(Q_1, \sum, \delta_1, Q_1^{\text{init}}, F_1\right) \\ Q_1 &= \left\{q_0, q_1\right\} \\ \sum_{} &= \left\{a, b\right\} \\ Q_1^{\text{init}} &= \left\{q_0\right\} \\ F_1 &= \left\{q_1\right\} \\ \delta_1 &= \left\{(q_0, a, q_0), (q_0, b, q_0), (q_0, b, q_1), (q_1, b, q_1)\right\} \end{split}$$

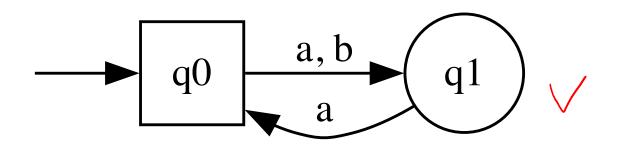
Language L_2

Part A

$$L_2 = \left\{ x_0 x_1 \dots \mid \left(\forall i \in N_0 \ . \ x_i \in \sum \right) \land \left(\forall i \in N_0 \ . \ i \bmod 2 = 1 \right) \right\} \quad \textbf{(i)} \quad \textbf$$

Part B

₩ i : "for all but finitely many i"



Part C

$$\begin{split} L_2 &= \left(Q_2, \sum, \delta_2, Q_2^{\text{init}}, F_2\right) \\ Q_2 &= \{q_0, q_1\} \\ \sum_{} &= \{a, b\} \\ Q_2^{\text{init}} &= \{q_0\} \\ F_2 &= \{q_0\} \\ \delta_2 &= \{(q_0, a, q_1), (q_0, b, q_1), (q_1, a, q_0)\} \end{split}$$