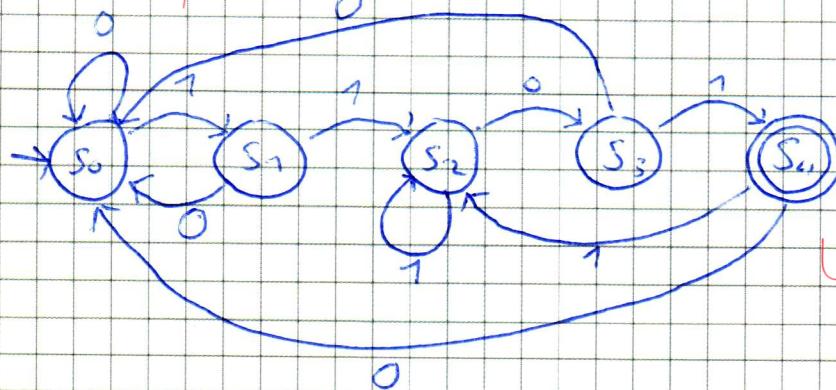


12/20

4337015 Victor Marie

2.1 a)



1.

6/6

2.

0/8

3.

6/6

$$M = \langle Q, \Sigma, \delta, q_0, F \rangle$$

$$Q = \{S_0, S_4\}$$

$$\Sigma := \{0, 1\}$$

$$q_0 = S_0$$

$$F := \{S_4\}$$

$$\delta: \begin{array}{c|c|c} a & \Sigma & \rightarrow Q \end{array}$$

$$\begin{array}{c|c|c} S_0 & 0 & S_0 \end{array}$$

$$\begin{array}{c|c|c} S_0 & 1 & S_1 \end{array}$$

$$\begin{array}{c|c|c} S_1 & 0 & S_0 \end{array}$$

$$\begin{array}{c|c|c} S_1 & 1 & S_2 \end{array}$$

$$\begin{array}{c|c|c} S_2 & 0 & S_3 \end{array}$$

$$\begin{array}{c|c|c} S_2 & 1 & S_2 \end{array}$$

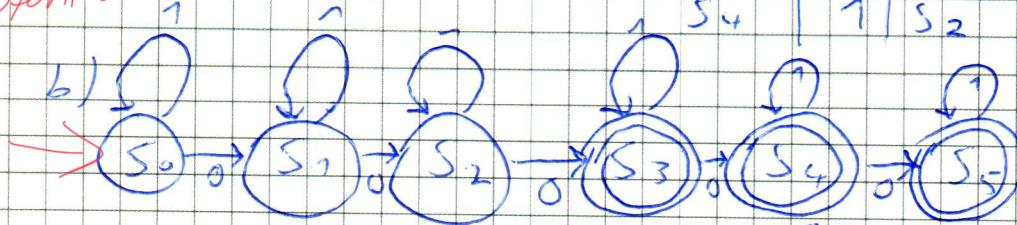
$$\begin{array}{c|c|c} S_3 & 0 & S_0 \end{array}$$

$$\begin{array}{c|c|c} S_3 & 1 & S_4 \end{array}$$

$$\begin{array}{c|c|c} S_4 & 0 & S_0 \end{array}$$

$$\begin{array}{c|c|c} S_4 & 1 & S_2 \end{array}$$

Startzustand herauszeichnen



$$M = \langle Q, \Sigma, \delta, q_0, F \rangle$$

$$Q = \{S_0, \dots, S_5\}$$

$$\Sigma := \{0, 1\}$$

$$q_0 = S_0$$

$$F := \{S_3, \dots, S_5\}$$

$$\delta': \begin{array}{c|c|c} a & \Sigma & \rightarrow Q \end{array}$$

$$\begin{array}{c|c|c} S_0 & 0 & S_1 \end{array}$$

$$\begin{array}{c|c|c} S_0 & 1 & S_0 \end{array}$$

$$\begin{array}{c|c|c} S_1 & 0 & S_2 \end{array}$$

$$\begin{array}{c|c|c} S_1 & 1 & S_1 \end{array}$$

$$\begin{array}{c|c|c} S_2 & 0 & S_3 \end{array}$$

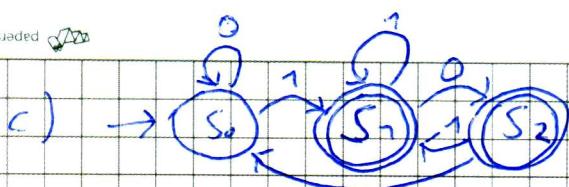
$$\begin{array}{c|c|c} S_2 & 1 & S_3 \end{array}$$

$$\begin{array}{c|c|c} S_3 & 0 & S_5 \end{array}$$

$$\begin{array}{c|c|c} S_3 & 1 & S_4 \end{array}$$

$$\begin{array}{c|c|c} S_4 & 0 & S_5 \end{array}$$

2/2



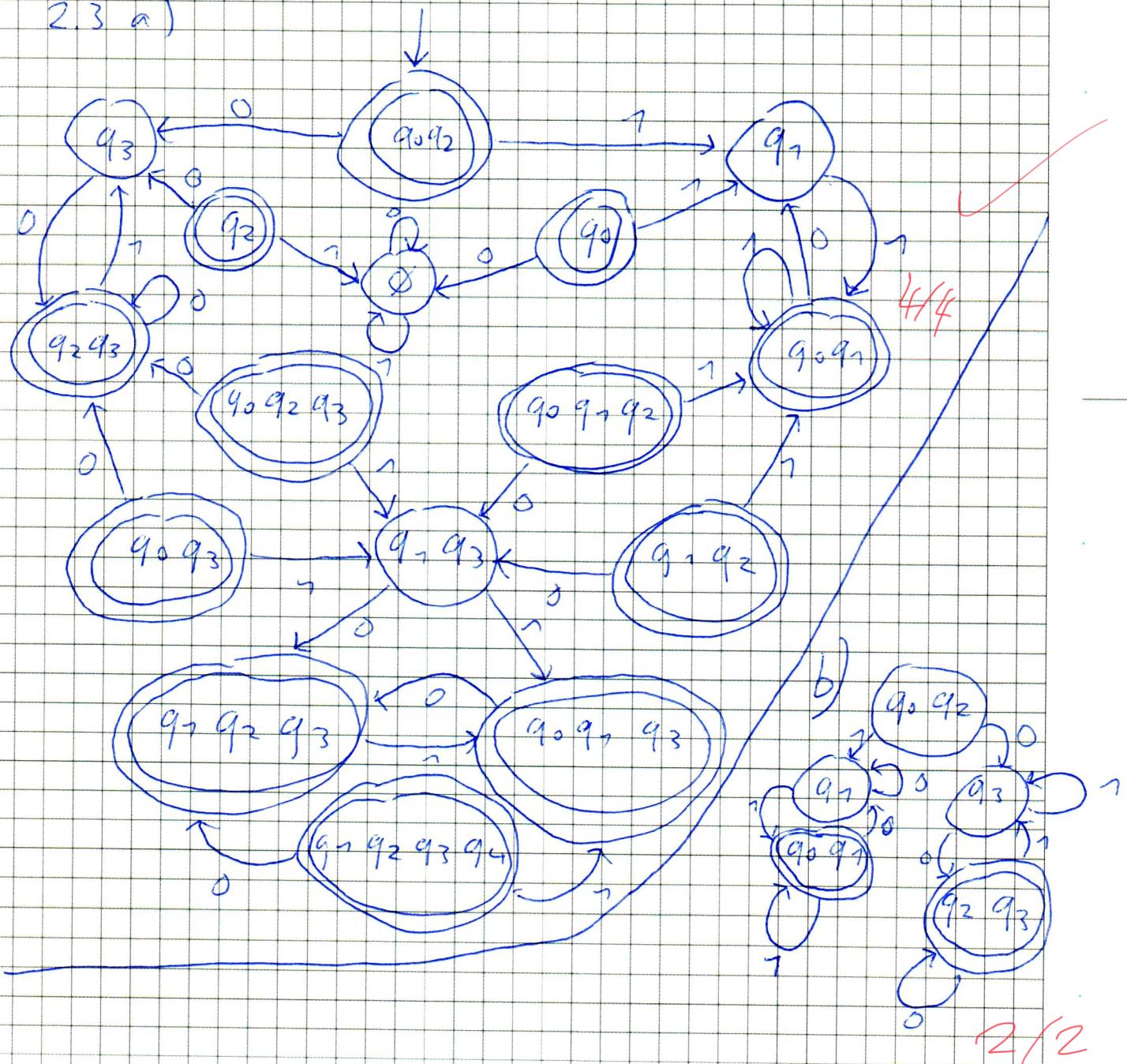
$$M = \langle \{S_0, S_1, S_2\}, \{0, 1\}, S, S_0, \{S_1, S_2\} \rangle$$

$S_i$ :	0	$\Sigma$	$\rightarrow Q$
$S_0$	0		$S_0$
$S_0$	1		$S_1$
$S_1$	0		$S_2$
$S_1$	1		$S_1$
$S_2$	0		$S_0$
$S_2$	1		$S_1$

✓

2/2

2.3 a)



2/2