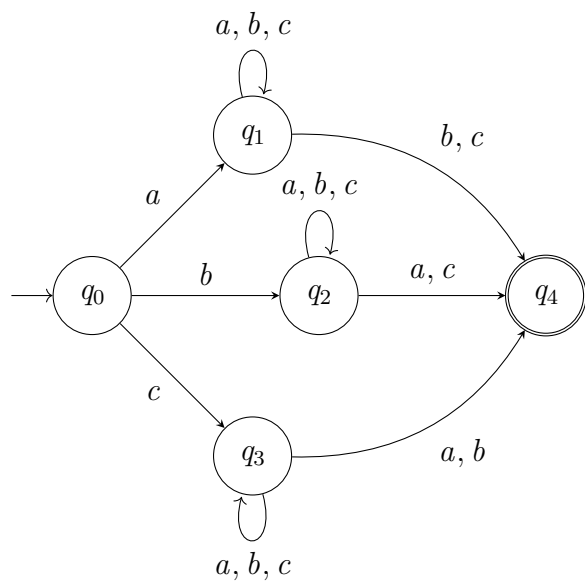# Übungsblatt 2

Hausaufgabe 4
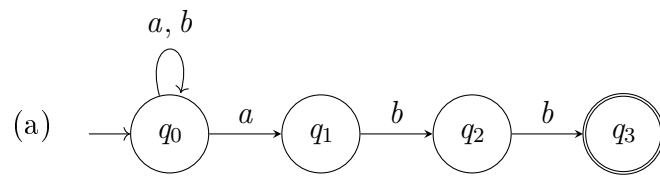
$\mathcal{A}_1$

$\mathcal{A}_2$
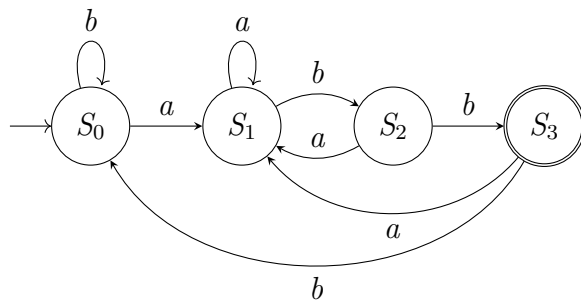
Hausaufgabe 5

(a)
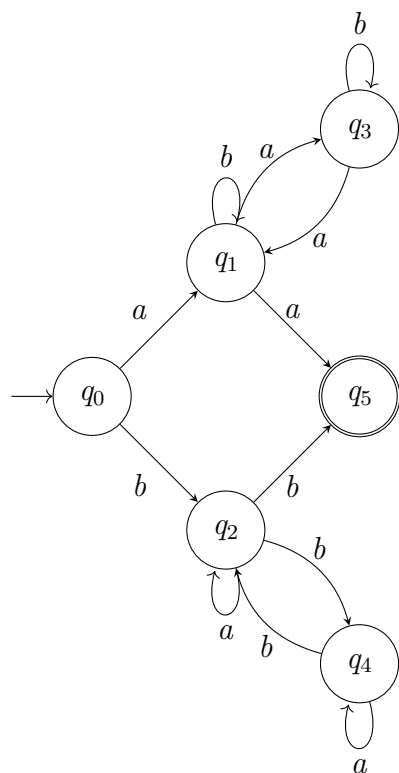
(b)

	a	b
$\{q_0\}$	$\{q_0, q_1\}$	$\{q_0\}$
$\{q_0, q_1\}$	$\{q_0, q_1\}$	$\{q_0, q_2\}$
$\{q_0, q_2\}$	$\{q_0, q_1\}$	$\{q_0, q_3\}$
$\{q_0, q_3\}$	$\{q_0, q_1\}$	$\{q_0\}$

$\Rightarrow \mathcal{P} = \{Q', \Sigma, S_0, \Delta', F'\}$
$Q' = \{S_0, S_1, S_2, S_3\}, F' = \{S_3\}$
$\Delta' = \{(S_0, a, S_1), (S_0, b, S_0), (S_1, a, S_1), (S_1, b, S_1), (S_2, a, S_1), (S_2, b, S_3), (S_3, a, S_1), (S_3, b, S_0)\}$

Hausaufgabe 6

(a)

(b)