

Talen en Automaten

Additional assignments for exercise class on Fri 30th Nov, 2018

1 Non-regular languages via closure properties

Show that $L = \{wv \in \{a, b\}^* \mid |w| = |v| \text{ and } w \neq v\}$ is not regular.

2 Non-regular languages via distinguishable words

Show that the language

$$L = \{vca^n \mid v \in \{a, b, c\}^* \text{ with } |v| < n, \text{ for some } n \in \mathbb{N}\}$$

is not regular.

3 Minimisation

Minimise the following automaton, using the algorithm from the lecture:

