- I Provide the denotational semantics of numbers in base 5 using \mathbb{N}_0 as domain. Demonstrate your semantics by formally calculating the decimal value of 123_5 .
- Build the underlying regular automaton of a*; b*. (Graphical notation is sufficient.)
- 3 Show using proof trees that a^* ; $b^* \stackrel{a}{\Rightarrow}^* 1$.