

Formale Baumsprachen

Task 21 (Myhill-Nerode theorem for trees (I))

Give an example for a bu-det fta \mathcal{A} with $\sim_{\mathcal{A}} \subsetneq \equiv_{L(\mathcal{A})}$.

Task 22 (Myhill-Nerode theorem for trees (II))

Let $\Sigma = \{\sigma^{(2)}, \alpha^{(0)}, \beta^{(0)}\}$ be a ranked alphabet and $L \subseteq T_{\Sigma}$ be the language consisting of all trees with exactly as many α s as β s. Use the Myhill-Nerode theorem to show that L is not recognizable.