

New questions for Quiz 3

- Define right-linear (p89)
- Linz example 3.14 (p90)
- State the relationship between regular languages and regular grammars. Soln: Linz Theorem 3.6
- Linz §3.3 Exercise 4.
- State the closure properties of regular languages under elementary set operations
Soln: Linz Thm 4.1 (p100)
- State the closure properties of regular languages under non-elementary set operations
Soln: [This combines Thms 4.2, 4.3, 4.4]
The family of regular languages is closed under reversal, homomorphisms, and right quotients.
- Linz §4.1 Exercises 7 and 14.
- Statement and proof of Thms 4.5, 4.6, 4.7 (p112)
e.g. "state and prove the theorem about determining equality of regular languages"
"is there an algorithm for determining whether a regular language is infinite? Justify your answer with a mathematical proof."
- Linz Example 4.6. ie. "Prove that $L = \{a^n b^n : n \geq 0\}$ is not regular."