# Homework 1

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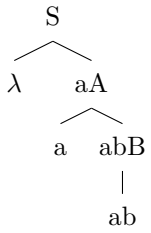
1. $G = (\{S, A, B\}, \{a, b\}, S, (S \to aA, S \to \lambda, A \to bB, A \to \lambda, B \to \lambda))$
   - $L(G) = \{\lambda, a, ab\}$




2. $G = (\{S\}, \{a, b\}, S, (S \to aSa, S \to bSb, S \to \lambda))$
   - $L(G) = \{w = xx^R \ : x \in \{a, b\}^*\}$