

Theo 1 Abgabe 1

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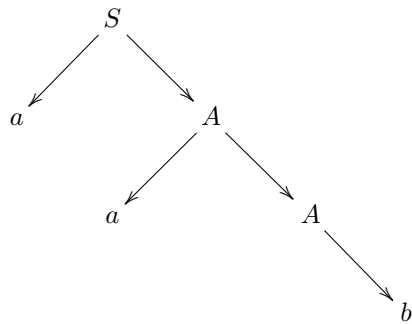
$$G_1 = (\{S\}, \{a, b\}, \{S \rightarrow \varepsilon | aSa | bSb\}, S)$$

$$G_2 = (\{S, A\}, \{a, b\}, \{S \rightarrow AbAbAbA, A \rightarrow aA | \varepsilon\}, S)$$

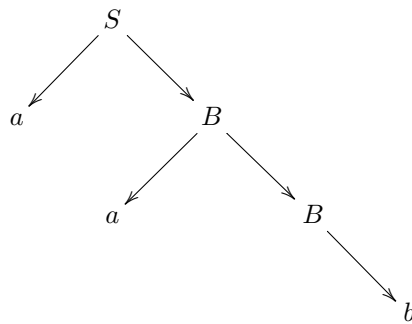
$$G_3 = (\{E, Z, D\}, \{a, b\}, \{E \rightarrow aZ | bZ, Z \rightarrow aD | bD, D \rightarrow \varepsilon | aE | bE\}, E)$$

2

2.1 a



2.2 b



2.3 c

$$G = (\{A, B\}, \{a, b\}, \{A \rightarrow aB|Bb, B \rightarrow aB|bB|a|b\}, A)$$