

张晨阳-第2次作业

P 37

4.解: $G = \{N, T, P, S\}$

其中 $N = \{S, A, B\}, T = \{x, y\}; x \in \{\text{所有字母}\}, y \in \{\text{所有字符}\}$

$P: S \rightarrow x, S \rightarrow xA, A \rightarrow y, A \rightarrow yB, B \rightarrow y$

6.解: $G = \{N, T, P, S\}$

其中 $N = \{S\}, T = \{0, 1\}$

$P: S \rightarrow 01, S \rightarrow 10, S \rightarrow \varepsilon, S \rightarrow S0S1S, S \rightarrow S1S0S$

7.解:

(1) $L = \{b(ab)^n | n \geq 0\}$

(2) $L = \{a^n cb^n | n \geq 0\}$

(3) $L = \{a^{2^{n+1}} | n \geq 0\}$