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Section 1.2

#15) (5 pts.) Give a simple description of the language generated by the grammar with productions

$$S \rightarrow aaA$$
$$A \rightarrow bS$$
$$S \rightarrow \lambda$$

Answer:

Set notation: $L = \{(aab)^n : n \geq 0\}$

#17) c) (5 pts) $L_3 = \{a^{n+3}b^n : n \geq 2\}$

Answers:

$$S \rightarrow aaaaaAbb$$
$$A \rightarrow aAb$$
$$A \rightarrow \lambda$$

or

$$S \rightarrow aSb$$
$$S \rightarrow aaaaabb$$