

1. Write your name in the space below.
2. Consider the 3-rule grammar on the right below. For each string on the left: (1) determine whether the grammar generates the string; (2) if so, provide a leftmost derivation; if not, justify your answer.

- (a)  $bc b$
- (b)  $bc b c b a$
- (c)  $bb b c b c b b$

$$\begin{array}{l} A \rightarrow Bb \mid cC \mid CBA \mid a \\ B \rightarrow BCC \mid b \\ C \rightarrow BBC \mid cb \end{array}$$

[additional space for answering the earlier question]