(5 points each, 15 total) For each of the three EBNF grammars below determine the Nullable, Starter, and Follow sets for the grammar nonterminals. Next, identify all choice points in the grammar and for each choice point determine the Predict sets. Then answer whether the grammar meets the LL(1) condition. In these grammars, capital letters represent nonterminals, lowercase letters represent terminals, and ε is the empty sequence. Write your solutions on this handout, and be sure to add your name at the top. If you need more space, staple additional paper behind this page and add your name on each sheet.

(a) \[ S ::= A \ B \ c \]
    \[ A ::= a \ B \mid \varepsilon \]
    \[ B ::= b \mid \varepsilon \]
(b) \[
S ::= A \ s \\
A ::= B \ c \ A \ | \ \epsilon \\
B ::= b \ B \ | \ a \ A
\]

(c) \[
S ::= A \ c \\
A ::= a \ A^* \ b \ | \ b
\]