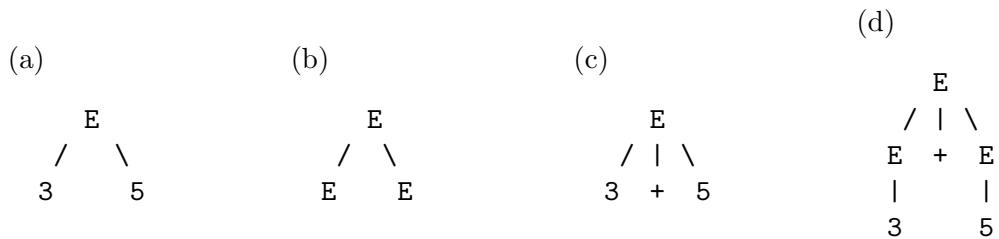


You Name:

1. Given a BNF $E ::= N|E+E$, where N stands for all integer numbers, which of the following is a correct **derivation** ?

(a) $E \Rightarrow N+N \Rightarrow 3+5$ (b) $E \Rightarrow E+E \Rightarrow 3+5$ (c) $E \Rightarrow E+E \Rightarrow 3+E \Rightarrow 3+5$

2. Given a BNF $E ::= N|E+E$, where N stands for all integer numbers, which of the following is a correct **parse tree** ?



3. Given a BNF $E ::= N|E+E|E * E$, where N stands for all integer numbers, Find the correct AST for the following **parse tree**.

