Question 1: Using Grammar G8 from example 10.10 in the book, draw a derivation tree for the following string: \((a + b) \times (b + c)\)

Question 2: Give a CFG for \(L = \{x \mid x \in \{a, b\}^* \text{ and } x \text{ has more a’s than b’s}\}\). (Your grammar can be ambiguous. Note that the language says nothing about the ordering of the a’s and b’s.)