

1 For the following sub-problems, consider the following context-free grammar

1.1 What are the terminals and non-terminals of this language

The terminals of this language are: $V_t = (x, y)$

The non-terminals of this language are: $V_n = (S, A, B)$

1.2 Describe the strings are generated by this language. Is this a regular language?

This language is a regular language.

1.3 Show the derivation of the string $xyxxy$ starting from S

