

Homework Assignment #10
Due: April 5, 2011 at 2:30 p.m.

1. Let $L = \{0^i 1^j : i \geq 0, j \geq 0 \text{ and } i \neq 2j\}$.
 - (a) Give a context-free grammar for L . For each variable that you use, give a precise description of the set of strings that can be generated by that variable.
 - (b) Give a parse tree for 0000011 using your grammar.
 - (c) Give a parse tree for 00011 using your grammar.