Homework #4 due November 8, 2016, Tuesday

- (1) (a) Consider a calculator that uses floating point decimal numbers with + and signs as inputs and can do the four operations +,-,*, / as well as parentheses for forced priority. Describe a CFG that can express any computable arithmetic term that such a calculator (with unlimited memory to allow for expressions of any length) can accept.
- (b) Draw the parse tree for the expression (10.48/(5.2+3.1) 20)*2 according to your CFG
- (2) From the main text Exercises 5.1.2 (b),(c), 5.1.3, 5.1.4, 5.1.7, 5.1.8, 5.2.2