You may look on the web or ask a friend for help, but make sure you state/cite what help you have had in completing the assignment. Ensure that you could answer similar questions on a test by yourself. Hand-written submissions are fine, but they must be readable. Due at the beginning of class. Total points: 10

1. [5 Points] Post-fix grammar.
   Write a grammar for post-fix expressions that can contain integer numbers (i.e. you can assume a token type called num) and the operators +, -, and *.

2. [5 Points] Using the notation from Figure 2.10 in the book, write the semantic rules that would convert a post-fix expression from your post-fix grammar into a pre-fix grammar. You can assume that the num token has a field called lexeme, which is the string representing the specific number for a specific num token.