CS 4114
Homework Exercise 5

Given: March 12, 2001                        Due: March 16, 2001

The point value of each problem is shown in [ ]. Your solutions may be created in
\LaTeX. Your solutions must be created electronically and may be submitted in printed
form (preferred) or electronically as a postscript or PDF file attached to email sent to
cs4114@courses.cs.vt.edu.

For every solution submitted, a careful justification of your answer is required. Such a
justification will typically consist of a proof or appeal to some theorem proved in class or in
the book. It may also consist of explicitly carrying out the steps of an algorithm presented
in class. The quality of your technical writing will be evaluated, so write carefully and
completely. A solution, correct or incorrect, without a justification is worth no credit.

The assignment must be delivered to the instructor at McBryde 638 or received at the
cs4114 account by 12:00 noon on March 16, 2001. If sent by email, the subject line should be
“Solutions to Homework Exercise 5”. NO UNEXCUSED LATE HOMEWORKS
WILL BE ACCEPTED. See syllabus for details.

If you submit a first version of your solutions and then decide to submit a revised version
BEFORE THE DEADLINE, you may do so as follows. Before you send the revised
version, send email to the GTA, Mr. Yang (xiyang20vt.edu), and send a copy to the course
account (cs4114@courses.cs.vt.edu) with the subject line “Resubmission of Homework
Exercise 5”. Explain briefly in the email what revisions you made. Immediately send the
revision to cs4114@courses.cs.vt.edu with the subject line “Solutions to Homework
Exercise 5: Resubmission”.

prove that the grammar actually generates the given language.


