1. With football season upon us, your boss wants you to write a program that scrapes
sports websites for information about football players. Write a regular expression
that captures information about a football player, in the following format:
<First name> <Last name>, <Height>, <Weight>, <Position>
Where first and last names start with capital letters and are followed by 0 or more
other letters, height is a numeric height in feet, followed by an apostrophe, then a
numeric height in inches, followed by a quotation mark, weight is a number followed
by either “lb” or “kg” and position is one of the following abbreviations: QB, OL,
RB, TE, WR, DL, LB, S or CB.

2. Give a non-deterministic finite automaton that matches the following regular expres-
sion:
\((a^*b^+c^*)|(a^+b^+c^*)\)

3. Give a deterministic version of the finite automaton, using the construction we de-
scribed in class. You only need to show the state transition diagram.

4. Derive the reduced DFA. Show both the graphical representation of the automaton
and the state transition diagram.