Homework #3

CS322/KAIST 2011 Fall

Choe, Kwang-Moo

Due Date: 10/6, 14:30

2011/9/29

Exercise 1 (10pt) Convert the following regular expressions to ε-NFA's and then DFA.

a) (0+1)01

b) (0+1)*00(0+1)*

Exercise 2 (10pt) Here is a transition table for a DFA:

	0	1
→ *p	s	p
q	p	s
r	r	q
s	q	r

a) Give all the regular expressions $R_{ij}^{(2)}$. Try to simplify the expressions as much as possible

b) Give a regular expression for the language of the automaton.