

ECS 120 Homework #3- due April 19

1. Linz, Section 2.2: 4, 12, 14
Section 2.3: 3, 5, 6
Section 3.1: 11, 24
2. Let M be the nfa in file JHW3, and let $L=L(M)$
 - (a) find a dfa M_1 , such that $L(M_1) = L$
 - (b) find a dfa M_2 , such that $L(M_2) = \bar{L}$
 - (c) find a regular expression r , such that $L(r) = L$

Note: Please submit JFLAP files for parts 2(a), 2(b), and 2(c).

Use the handin utility on CSIF for electronic submission:

For example, if you're submitting the file "problem_2a.jff"s, use the following command on your CSIF account:

```
> handin shini hw3 problem_2a.jff
```