COMP 301
Assignment 1
Due 10:30, Tuesday, September 17, 2002
All problems are of equal value.

Reading
Sipser, sections 1.1 and 1.2.

Practice
Sipser, 1.1, 1.2, 1.3, 1.4, 1.5, 1.7, 1.8, 1.9, 1.11, 1.25, 1.26, 1.27, 1.29, 1.30, 1.31, 1.32, 1.34, 1.35.

To Be Handed In
1. Sipser, 1.6.
2. Sipser, 1.10.
5. Show that the following language is regular:
   \{x|x \text{ is a binary number that is a multiple of } 3\}.

Bonus
Let \(L\) be a regular language. Show that the following language is also regular:
\{xy|yx \in L\}. 