CS 321 Theory of Computation   Quiz 1   Closed Book, Closed Notes
Don't worry about trap states -- you can either include them or omit them.

Last Name = _____   First Name = _____   ONID Login = _____

1. (1 pt) Prove that the language L = { 0w1 | w \in {0,1}* } is regular.

2. (2 pts) Construct a DFA for the set of bitstrings that do *not* end in 0100.

3. (2 pts) Construct a DFA for the set of non-negative binary numbers that are divisible by 4.

   (a) using 4 states

   (b) using 3 states; if impossible please explain.