Last Name = _____, First Name = ____

ONID login = = _____@oregonstate.edu

1. (1 pt) Construct an NFA for bitstrings that either contain 1011 or end with 001.

2. (1 pt) Given $\Sigma = \{a\}$, construct an DFA for each of the following: $L_1 = \text{strings whose length is } \mathbf{not} \text{ a multiple of } 3 \mid L_2 = \text{strings of } \mathbf{odd} \text{ length}$

For each of the next 3 problems, you can do either DFA or NFA, whichever is easier for you.

3. (1 pt) $L_1 \cap L_2$

4. (1 pt) $L_1 \cup L_2$

5. (1 pt) $L_1 \circ L_2$