## CSCI 2321 (Principles of Computer Design), Spring 2013 Homework 5

Credit: 10 points.

## 1 Reading

Be sure you have read all assigned sections of appendix C.

## 2 Problems

Do the following problems. You may write out your answers by hand or using a word processor or other program, but please submit hard copy, either in class or in my mailbox in the department office.

- 1. (5 points) Do problems C.7 and C.8 from the textbook. (The definition of parity is in the section titled "Error Correction".)
- 2. (5 points) Do problems C.37 and C.38 from the textbook. For C.37 you are to produce something analogous to the diagram in Figure C.10.2; for C.38 you are to produce something analogous to the Boolean expressions in the text following Figure C.10.2 (except that you will need a separate expression for each bit of the output state, assuming you have more than two, which you almost certainly will). *Hint:* You might need more than three states.