Math 366: Exam 1 Review Sheet Answers

1. Done in class.

2. (a) 69.3
   (b) $(68, 71.5, 79, 87, 100)$
   (c) Inner fences should be at 48.25 and 102.25; Outer fences at 25 and 124 (although since the data represents test scores there won't be any over 100 so the upper fences aren't necessary).
   (d) No outliers or susepected outliers since no data points lie beyond the inner or outer fences.

3. Done in class.

4. The confidence interval for $\mu_X - \mu_Y$ is $(-1.93, 0.127)$ and in particular contains 0. Hence the Cola Y makers cannot claim they are 95% confident that their cola is better since their data shows it could be better, worse or the same.

5. 90% (Note: use $t-$table.)

6. 360

7. (a) $(0.3522, 0.3878)$
   (b) 1577

8. 0.0192

The rest of the problems are odd-numbered problems from the book and the answers can be found in the back of your book.