MATH 155 Exam I Review (Section 1.1 - 2.3)

- 1. Know the definition of statistics. (1.1)
- 2. Know the definition of a simple random sample and how to construct one. (1.1)
- 3. Know how to describe and recognize different sampling types: stratified, cluster, systematic, voluntary response and convenience sampling. (1.1)
- 4. Know how to distinguish between a statistic and a parameter. (1.1)
- 5. Know how to recognize types of data: qualitative, quantitative, ordinal, nominal, discrete, continuous. (1.2)
- 6. Know how to distinguish between a randomized experiment and observational study. (1.3)
- 7. Know the definitions associated with randomized experiment and observational study and the definition of confounding. (1.3)
- 8. Know how to identify sources of bias. (1.4)
- 9. Know how to construct frequency distribution, bar graphs, pareto chart, pie chart, stem-and-leaf plot, histogram, frequency polygon, ogive, dotplot and time-series graph. (2.1 2.3)
- 10. Know how to interpret summation notation.

Review Exercises. Homework, Quizzes,

Ch. 1 Review Exercises: #1 - 25;

Ch. 2 Review Exercises: #1 - 15;