## MTH 316 NONPARAMETRIC STATISTICS Homework #2 (Due Thursday, September 12)

The following exercises are from Chapter 2, pages 42–44.

- **1.** Problem 2.2
- **2.** Problem 2.3
- **3.** Problem 2.5
- **4.** Problem 2.10
- **5.** Problem 2.11
- **6.** Please refer to the example given in class concerning medications A and B for hypertension.
- **a.** What is the distribution of the sum of the ranks (S) for medication B?
- **b.** Using part **a**., conduct the two-tailed hypothesis test that the change in blood pressure distributions are the same for medications A and B. Compare your results to those obtained in class.
- c. Use wilcox.test(x,...) to conduct the two-tailed hypothesis test in R. In R, type help("wilcox.test") for more details. Comment on your findings.