

Homework #6

1. (10 points each) Do exercises 13.6.10, 13.6.13, 13.6.16.

2. (5 points) Assume that we have two independent samples from two populations: $m=10$ subjects from population A and $n=9$ subjects from populations B. To test if the population A has a larger location parameter than that of population B, we can use (a) the Wilcoxon rank-sum tests or (b) the permutation test on sample means difference. For each test, find the smallest possible p-values. (That is, there exist some data sets with $m=10$ and $n=9$, on which the calculated p-value equals the answer you given.)