Homework 1 (Due 10pm, March 9, Thursday)

Prob-1 KNNL 1.7
Prob-2 KNNL 1.12
Prob-3 KNNL 1.19 (data can be downloaded from course websites)
Prob-4 KNNL 1.23
Prob-5 KNNL 1.41

Prob-6
The average number of days to complete recovery from a particular type of knee operation is 123.7 days. From his experience a physician suspects that use of a topical pain medication might be lengthening the recovery time. He randomly selects the records of seven knee surgery patients who used the topical medication. The times to total recovery were:

128 135 121 142 126 151 123

a) Assuming a normal distribution of recovery times, perform the relevant test of hypotheses at the 10% level of significance.
b) Would the decision be the same at the 5% level of significance?