Math 226 **Assignment #11** Due: Start of class on Wednesday 11/16/16

Topic: Sampling distribution of sample mean; Point estimators;

Reading Assignment: 8.1 - 8.4, 9.1

Assigned Problems:

Chapter 8: **10, 11, 14, 16, 22, 30**

Chapter 9: **1 (a & b)**, and then these two additional sections:

(c) Based on your results for (a) and (b), which of the 4 estimators would you consider to be best for population parameter θ (and why)?

(d) Now also consider a 5th estimator: $\hat{\theta}_5 = \frac{X_1+X_2}{3}$

Determine if $\hat{\theta}_5$ is better, equally good, or not as good as your choice of the best estimator in (c). Justify your answer.