

22s:039

Homework 4

Assigned Friday, September 25

Due Friday, October 2 at classtime

Chapter 4: Continuous Random Variables and Distributions

For each problem, provide the solution and any work that can be used for partial credit.

Do all parts of following book problems.

4-1

4-2 only do b .

4-8 parts a and b .

4-14 parts a and b .

4-29

4-33 only a and b

4-42

4-50 Note in (b): 25% quartile is the value with 0.25 probability below it.

Note in (c): If it's exceeded by 95% of the values, then there's very few values to the left of it.

4-64

Do the following written problem:

4A-1 Assume heights of women in a population follow the normal curve with mean 64.3 inches, and standard deviation 2.6 inches.

- a) What proportion of women have heights between 60 and 66 inches?
- b) How tall is a women whose height is on the 90th percentile?