

22s:039

Homework 3

Assigned Friday, September 18

Due Wednesday, September 23 at classtime

Solutions posted Wednesday after class.

Midterm Exam 1: Thursday, September 24, 8:00-10:00pm
Van Allen Lecture Room 1

HW 3 Topics: Discrete Random Variables (probability distributions, cumulative distributions, mean and variance, and common distributions).

Do all parts of following book problems unless otherwise stated.

3-26

3-36 Parts a, b, and c

3-43

3-57

3-76

3-81

3-86

3-102

3-108 Parts a and c

3-109

Do the following written problem:

3A-1 When they get married (i.e. prior to having any kids) a couple has decided to keep having children until they have 3 girls. Assuming an equal probability of having a boy or a girl, what is the probability that they will stop on the 8th child?

***NOTE:** For the test, be able to recognize *which* discrete random variable coincides with a particular scenario, or probability computation [this will be based on the information given in the problem]. Unlike homework, the test will not be in order by 'Book Section'.