

Homework Set 1

EECS 401

Due: Friday, Jan. 14, 2000
in class before lecture begins
The late policy for homework
is described below.

Reading Assignment: Read Chapter 1 and Sections 1 and 2 of Chapter 2.

Things to practice on your own:

- Making up sets, using proper notation, and applying set operations.
- Making models of random experiments.
- Specifying events as sets.

Please review the collaboration policy stated in the first day handout.

Problems from Leon-Garcia's book

1. 1-11, p. 22. See Problems 1-7 and 1-9 for definitions of sample mean and sample variance.
2. 2-1, p. 73
plus: (d) Find a probability law for this experiment. (Hint: It is enough to assign a probability to each element of the sample space.)
3. 2-3, p. 73
plus: (d) Find a probability law for this experiment.
4. 2-4, p. 73
plus: (e) Find a probability law for this experiment.
5. 2-6, p. 73
6. 2-7, p. 73
7. 2-15, p. 74
8. Find a probability model for the experiment described in Prob. 2-17, p. 75.
Then do Problem 2-17
9. 2-19, p. 75
10. 2-29, p. 76

Homework due and late policy: (for this and all other homework)

- Homework due on a certain date must be turned in before the lecture starts.
- Homework turned in after the lecture starts, and before the start of the next lecture will have 25% deducted from its score.
- Homework turned in after the next lecture starts, but before the start of the lecture one week from the original due date will have 50% deducted.
- Homework more than one week late will not be accepted.
- In computing the contribution of the homework to the course grade, the lowest homework grade will be dropped.