

## Math 447 - Spring 2026 - Homework 06

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### Status - Reading Assignments:

Here are the reading assignments to be completed before the first one of this HW.

MF447 lecture notes:

ch. 1 - 5, ch. 6.1 (skim), Ch. 7 - 8

WMS (Wackerly, et al. Textbook):

Ch. 2

Other:

Nothing assigned yet

### New reading assignments:

It is really important for the WMS reading assignments that you work through the examples!

#### Reading assignment 1 - due Monday, February 23:

- a. Carefully read the non-optional material and skim the optional material of MF Ch.6.2 (the remainder) and of MF ch.6.3 - 6.4. Understand the parallels to MF ch.4!

#### Reading assignment 2 - due Wednesday, February 25:

- a. Carefully read the remainder of MF ch.6 (that's ch.6.5). This material provides the underpinnings for a proper understanding of MF ch.9, 10, and beyond.

#### Reading assignment 3 - due Friday, February 27 (no classes)

- a. Carefully read MF ch.9.1 - 9.2. You definitely have to memorize the PMFs of Bernoulli and binomial random elements (and those of the other non-optional discrete distributions defined later on in that chapter).

Written assignments are on the next page.

**General note on written assignments:** I will not collect those assignments for grading but doing them might be helpful for your quizzes and exams.

- (a) Work closed book through the examples given in the assigned reading, both in MF and WMF.
- The stronger students are strongly encouraged to work through the examples and remarks of MF ch.6.
  - Everyone should work through the examples and remarks of MF ch.6.5. In particular, LOTUS.
- (b) All WMS exercises below are odd-numbered, so the solutions are in the book.
- WMS ch.3.2 exercises: #3.1, 3.3, 3.7
  - WMS ch.3.3 exercises: #3.15, 3.21, 3.25, 3.31, 3.33
  - WMS ch.3.4 exercises: #3.37, 3.43, 3.53, 3.59
  - WMS ch.3.5 exercises: #3.67, 3.73, 3.75

**Selected answers:**

None, since all answers to (a) can be found in WMS and the lecture notes.