

Math 447 - Fall 2025 - Homework 08

Published: Thursday, October 9, 2025

Status - Reading Assignments:

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

WMS (Wackerly, et al. Textbook):

ch.2 - 3.9, 4.1 - 4.3, parts of ch.6.5

MF447 lecture notes:

ch.1 - 10.9

Other:

Nothing assigned yet

Really important: For the WMS reading assignments, work through the examples!

Reading assignment 1 - due Monday, October 13:

- Carefully read MF ch.11.1 and 11.2. You MUST be able to write the definitions from memory!
- Carefully read WMS ch.4.4–4.6. Work through all the examples given there!
- skim WMS ch.4.7 (optional here, but may be important in Math 448). The focus should be on the examples.

Reading assignment 2 - due: Wednesday, October 15:

- Carefully read WMS ch.4.8–4.9, WMS ch.3.11, and WMS ch.4.10. The last two assignments both are covered in MF ch.10.8.
- Carefully read MF ch.11.3–11.5. The abstract material concerning independence of r.v.s and r.e.s was previously discussed.

Reading assignment 3 - due Friday, October 17:

- Carefully read MF ch.11.6 and ch.11.7.1 – ch.11.7.2. All that material will be very important when you study Math 448 and linear regression.
- Skim MF ch.11.7.1. It helps understanding the material in the remainder of ch 11.7 and the strong students are very much encouraged to work through the material.
- Carefully read WMS ch.5.1–5.3. You have seen the material already in MF ch.11. Work through the examples!

Written assignments are on the next page.

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| General note on written assignments: I will not collect those assignments for grading but doing them might be helpful for your quizzes and exams. |
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- (a) Work closed book through the examples given in the assigned reading, both in MF and WMF.
- (b) All the non-optional material assigned in this HW is very important, and you must be able to write from memory the definitions covered there.
- (c) All WMS exercises below are odd-numbered, so the solutions are in the book.
- WMS ch.3.11 exercises: #3.167, 3.171, 3.177
 - WMS ch.4.2 exercises: #4.001, 4.007, 4.011, 4.017
 - WMS ch.4.3 exercises: #4.025, 4.031
 - WMS ch.4.4 exercises: #4.051
 - WMS ch.4.5 exercises: #4.059, 4.071, 4.077

Selected answers:

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