Math 447 - Spring 2024 - Homework 10

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Status - Reading Assignments:

Here are the reading assignments you were asked to complete before the first one of this HW.

WMS (Wackerly, et al. Textbook):   ch.1 - 5.9

MF447 lecture notes: Ch.1 - 8.8

Other: Nothing assigned yet

New reading assignments:

> • When studying the WMS book, be sure to pay extra attention to the examples!

Reading assignment 1 - due Monday, March 18:
   a.   Carefully read WMS ch.5.11. You already have encountered the material in MF ch.8.
   b.   Study for the midterm!

Reading assignment 2 - due Wednesday, March 20:
   a.   Study for the midterm!

Reading assignment 3 - due Friday, March 22:
   a.   Carefully read MF ch.9.1 – 9.2. Work the examples!
   b.   Carefully read WMS ch.6.1. You already have encountered the material in MF ch.9. Work the examples!

Written assignments - Not collected for grading:

> Remember that **some of those assignments will be relevant for the quizzes and exams.**

(a) Write from memory the following definitions and compare them with the MF lecture notes:
   • The multivariate extensions for expected value and variance
   • Covariance, conditional expected value and conditional variance

(b) Again: Review the formula sheet for midterm 2

(c) All WMS exercises below are odd-numbered, so the solutions are in the book.
   • WMS ch.4.10 exercises: #4.151
   • WMS ch.5.2 exercises: #5.1, 5.3, 5.5, 5.7, 5.11, 5.15
   • WMS ch.5.3 exercises: #5.19, 5.21, 5.23, 5.25, 5.33,