Homework Problems

Collaboration allowed in solving the problems, but you are to provide your own independently written solution.

Only first five problems on each Homework set that you submit will be marked and counted towards your course grade.

When solving these homework problems, you may and should cite without a proof whatever is relevant from the lecture notes, or known to you from prior real analysis or probability courses.

Please deliver your assignment to class on the due date. Late homework solutions will not be graded.

Homework 1, due Thursday, October 5:
Solve Exercises 1.1.3, 1.1.9, 1.1.12, 1.2.3, 1.2.18 and 1.2.39

Homework 2, due Thursday, October 12:
Solve Exercises 1.3.14, 1.3.21, 1.4.2, 1.4.14, 1.4.17 and 1.4.30

Homework 3, due Thursday, October 19:
Solve Exercises 1.4.31, 1.4.33, 2.1.4, 2.3.3, 2.3.6 and 2.3.16

Homework 4, due Thursday, October 26:
Solve Exercises 2.3.19, 2.4.16, 3.1.12, 3.2.12, 3.2.18 and 3.2.26

Homework 5, due Thursday, November 2:
Solve Exercises 3.2.21, 3.2.22, 3.3.3, 3.3.8, 5.1.4 and 5.1.12

Homework 6, due Thursday, November 9:
Solve Exercises 4.1.6, 4.1.23, 4.2.5, 4.2.10, 5.1.8 and 5.1.11

Homework 7, due Thursday, November 16:
Solve Exercises 4.3.1, 4.3.15, 4.3.18, 4.3.20, 5.2.4 and 5.2.5

Homework 8, due Thursday, November 30:
Solve Exercises 4.4.10, 4.5.4, 4.6.8, 4.6.9, 5.3.10 and 5.3.14

Homework 9, due Thursday, December 7:
Solve Exercises 6.1.7, 6.1.19, 6.1.20, 6.2.10, 6.2.12 and 6.2.13