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 Wednesday, January 16:
Solve Exercises 1.1.3, 1.1.9, 1.1.12, 1.2.5, 1.2.18 and 1.2.30

Homework 2, due Friday, January 25:
Solve Exercises 1.3.14, 1.3.21, 1.4.2, 1.4.14 and 1.4.17

Homework 3, due Wednesday, January 30:
Solve Exercises 1.4.30, 1.4.31, 1.4.33, 2.1.4 and 2.3.6 and 2.3.6

Homework 4, due Wednesday, February 6:
Solve Exercises 2.3.16, 2.3.19, 2.4.6, 3.1.12 and 3.2.12

Homework 5, due Wednesday, February 13:
Solve Exercises 3.2.13, 3.2.21, 3.2.22, 3.2.26, 3.3.5 and 3.3.8

Homework 6, due Friday, February 22:
Solve Exercises 4.1.6, 4.1.23, 5.1.4, 5.1.11 and 5.1.12

Homework 7, due Wednesday, February 27:
Solve Exercises 4.2.5, 4.2.10, 4.3.4, 4.3.15, 5.2.4 and 5.2.5

Homework 8, due Wednesday, March 6:
Solve Exercises 4.3.18, 4.3.20, 4.4.10, 4.5.4, 4.6.8 and 4.6.9

Homework 9, due Wednesday, March 13:
Solve Exercises 5.3.10, 5.3.14, 6.1.7, 6.1.19, 6.2.10 and 6.2.13