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 Tuesday, January 14:
Solve Exercises 1.1.3, 1.1.9, 1.1.12, 1.2.5, 1.2.18 and 1.2.40

Homework 2, due Tuesday, January 21:
Solve Exercises 1.3.14, 1.3.21, 1.4.2, 1.4.14 and 1.4.17

Homework 3, due Tuesday, January 28:
Solve Exercises 1.4.30, 1.4.31, 1.4.33, 2.1.4, 2.3.3 and 2.3.6

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

Homework 5, due Tuesday, February 11:
Solve Exercises 3.2.13, 3.2.21, 3.2.22, 3.2.26, 3.3.5 and 3.3.8

Homework 6, due Tuesday, February 18:
Solve Exercises 4.1.6, 4.1.23, 5.1.4, 5.1.11 and 5.1.12

Homework 7, due Tuesday, February 25:
Solve Exercises 4.2.5, 4.2.10, 4.3.4, 4.3.15, 4.3.18 and 4.3.20

Homework 8, due Tuesday, March 3:
Solve Exercises 5.3.10, 5.3.14, 6.1.7, 6.1.19, 6.2.10 and 6.2.13

Homework 9, due Tuesday, March 10:
Solve Exercises 5.3.10, 5.3.14, 6.1.7, 6.1.19, 6.2.10 and 6.2.13