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 the 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 submit your assignment via Gradescope by the due date/time. Late homework solutions will not be graded.

Homework 1, due Tuesday, January 19:
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 26:
Solve Exercises 1.3.14, 1.3.21, 1.4.2, 1.4.14, 1.4.17 and 1.4.30

Homework 3, due Tuesday, February 2:
Solve Exercises 1.4.31, 1.4.33, 2.1.4, 2.3.3, 2.3.6 and 2.3.16

Homework 4, due Tuesday, February 9:
Solve Exercises 2.3.19, 2.4.6, 3.1.12, 3.2.12, 3.2.13 and 3.2.21

Homework 5, due Tuesday, February 16:
Solve Exercises 3.2.22, 3.2.26, 3.3.3, 3.3.8, 5.1.4 and 5.1.6

Homework 6, due Tuesday, February 23:
Solve Exercises 4.1.6, 4.1.23, 4.2.5, 5.1.8, 5.1.11 and 5.1.12

Homework 7, due Tuesday, March 2:
Solve Exercises 4.2.10, 4.3.4, 4.3.15, 4.3.18, 4.3.19 and 4.4.10

Homework 8, due Tuesday, March 9:
Solve Exercises 5.3.1, 5.6.3, 5.6.9, 5.2.1, 5.2.5 and 5.3.14

Homework 9, due Tuesday, March 16:
Solve Exercises 6.1.6, 6.1.7, 6.1.9, 6.1.10, 6.2.10 and 6.2.13