

**2021/22 SPRING SEMESTER
MATH1322 CONVEX OPTIMIZATION
WEEKLY HOMEWORK**

Week	Reading Assignment	Suggested Exercises
1	Pages 1 – 30	2.3, 2.4, 2.6, 2.7
2	Pages 31 – 54	2.8, 2.10, 2.16, 2.17, 2.22, 2.27, 2.31, 2.38
3	Pages 55 – 90	3.8, 3.10, 3.17, 3.22, 3.29, 3.33
4	Pages 91 – 144	3.39, 3.43, 3.46, 3.49, 3.58, 4.2, 4.5
5	Pages 145 – 166	4.7, 4.14, 4.21, 4.26, 4.28, 4.33, 4.37
6	Pages 167 – 219	4.43, 4.47, 4.53, 4.57, 4.62, 4.65
7	Pages 220 – 233	5.7, 5.10, 5.16, 5.20, 5.21
8	Pages 234 – 288	5.1, 5.22, 5.26, 5.27, 5.32, 5.33, 5.39, 5.40
9	Pages 661 – 684, 455 – 458	9.1, 9.2
10	Pages 459 – 483	9.3, 9.5, 9.7, 9.8
11	Pages 484 – 520	9.11, 9.12, 9.15, 9.16, 9.19, 9.23, 9.27,
12	Pages 521 – 560	10.1, 10.2, 10.5, 10.6, 10.7, 10.9, 10.11
13	Pages 561 – 585	11.1, 11.3, 11.5, 11.6, 11.7, 11.10
14	Pages 586 – 630	11.13, 11.14, 11.15, 11.17, 11.18, 11.19

Guidelines

Suggested exercises are not for submission. You are encouraged to work on as many exercises as possible, including the suggested ones. Solutions are provided on BB.

You need to submit a report on BB by the end of Sunday in every even-numbered week after reading the relevant pages from the textbook carefully. Late submission will not be accepted. While reading, pay particular attention to the details not covered in lectures due to time limitation.

Normally, your reading report should last for about one full page; however, one extra page is required for every missing lecture (i.e. you need to submit two full pages if you miss one lecture, or three full pages if you miss two lectures).