

Assignment #4

Due Wednesday, 5 October 2022, at the start of class

From the textbook¹ please read sections 3.1–3.3 and 4.1–4.4. In fact Chapters 3 and 4 address the most important ideas of linear programming. The simplex method in Chapter 5 can be understood as an organizational tool which converts these important ideas into a viable computer program.

DO THE FOLLOWING EXERCISES from section 3.1, page 82:

- Exercise 1.2
- Exercise 1.3

DO THE FOLLOWING EXERCISE from section 3.2, pages 84–85:

- Exercise 2.2

DO THE FOLLOWING EXERCISES from section 3.3, pages 91–93:

- Exercise 3.1 (i)–(iii)
- Exercise 3.3
- Exercise 3.4

DO THE FOLLOWING EXERCISES from section 4.1, pages 98–100:

- Exercise 1.1 (i)–(iv)
- Exercise 1.2

¹Griva, Nash, and Sofer, *Linear and Nonlinear Optimization*, 2nd ed., SIAM Press 2009.