Mathematical Economics Daisuke Oyama June 5, 2023

Homework 1

Due on June $12\,$

- 1. Solve Problem 2.9.
- 2. Solve Problem 2.7.

3. Solve Problem 2.6.

4. Solve Problem 2.8.

5. Prove the following:

Let $A \in \mathbb{R}^{m \times n}$. Either

- (i) $Ax \gg 0, x \ge 0$ has a solution, or
- (ii) $yA \leq 0, y \geq 0, y \neq 0$ has a solution,

but not both.