

Optimisation. Short solutions Module 4

Exercise 4.4.

All optimal solutions are given by

$$\lambda \begin{bmatrix} 0 \\ 1 \end{bmatrix} + (1 - \lambda) \begin{bmatrix} 56/17 \\ 45/17 \end{bmatrix}$$

with $0 \leq \lambda \leq 1$.

Exercise 4.5.

No.

Exercise 4.6.

$$x^* = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

Exercise 4.7.

The problem is unbounded.

Exercise 4.8.

$$x^* = \begin{bmatrix} 10 \\ 40 \end{bmatrix}$$