Solution Manual For:
Introduction to Linear Optimization
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November 22, 2007

Introduction

Acknowledgements

Special thanks to Dave Monet for helping find and correct various typos in these solutions.

Chapter 1 (Introduction)

Exercise 1.1

Since $f(\cdot)$ is convex we have that

$$f(\lambda x + (1 - \lambda)y) \le \lambda f(x) + (1 - \lambda)f(y). \tag{1}$$

Since $f(\cdot)$ is concave we also have that

$$f(\lambda x + (1 - \lambda)y) \ge \lambda f(x) + (1 - \lambda)f(y). \tag{2}$$

Combining these two expressions we have that f must satisfy each with equality or

$$f(\lambda x + (1 - \lambda)y) = \lambda f(x) + (1 - \lambda)f(y). \tag{3}$$

This implies that f must be linear and the expression given in the book holds.

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Introduction To Linear Optimization Solutions Manual

R Barnett

Introduction To Linear Optimization Solutions Manual:

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