# Solution Manual For:

# Introduction to Linear Optimization by Dimitris Bertsimas & John N. Tsitsiklis

John L. Weatherwax\*

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

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

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

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

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

$$f(\lambda x + (1 - \lambda)y) = \lambda f(x) + (1 - \lambda)f(y). \qquad (3)$$

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

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web the high performance advia centaur xp system has more onboard reagents and dedicated stat capabilities to maximize productivity regardless of volume or types of tests always ready continuous operation without interruption high throughput up to 240 tests hour intuitive software for ease of operation

## advia centaur xp immunoassay system from siemens - Nov 06 2022

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