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August, 2005

Rangarajan K. Sundaran, 1996, "A First Course in Optimization Theory", Cambridge University Press:

Solutions of (some) exercises

Appendix C (pp. 330-347): Structures on Vector Spaces.

1.

$$\begin{aligned} \frac{1}{4}(\|x+y\|^2 - \|x-y\|^2) &= \frac{1}{4}(\langle x+y, x+y \rangle - \langle x-y, x-y \rangle) \\ &= \frac{1}{4}(\langle x, x \rangle + 2\langle x, y \rangle + \langle y, y \rangle - (\langle x, x \rangle - 2\langle x, y \rangle + \langle y, y \rangle)) \\ &= \frac{1}{4}(4\langle x, y \rangle) = \langle x, y \rangle \quad \square \end{aligned}$$

2.

$$\begin{aligned} \|x+y\|^2 + \|x-y\|^2 &= \|x+y\|^2 - \|x-y\|^2 + 2\|x-y\|^2 \\ \text{Polarization Identity} \implies &= 4\langle x, y \rangle + 2\|x-y\|^2 \\ &= 2\langle x, x \rangle + 2\langle y, y \rangle \\ &= 2(\|x\|^2 + \|y\|^2) \quad \square \end{aligned}$$

3. Let's take e.g. $\mathbb{R}^2$, $\vec{x} = (1, 0)$ and $\vec{y} = (0, 2)$:

$$\|x+y\|_1^2 + \|x-y\|_1^2 = 3^2 + 3^2 = 18 \neq 10 = 2 \cdot (1^2 + 2^2) = 2(\|x\|_1^2 + \|y\|_1^2) \quad \square$$

Sundaram Optimization Solution Manual

Victor M. Corman



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Sundaram Optimization Solution Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Sundaram Optimization Solution Manual**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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