

SOME NEW MINIMAX THEOREMS

MOHAMMED BACHIR

ABSTRACT. We establish an alternative theorem and deduce some new minimax theorems extending classical results such as Fan, König and Simons theorems. Some applications will be given.

Keywords: Minimax theorem, Alternative theorem, convexlikeness, function spaces.

1. INTRODUCTION

Let X and Y be arbitrary nonempty sets and $f : X \times Y \rightarrow \mathbb{R}$ be a function. Recall that, f is said to be t -convexlike on X for some $t \in (0, 1)$, if and only if for all $x_1, x_2 \in X$, there exists $x_3 \in X$ such that $f(x_3, y) \leq tf(x_1, y) + (1 - t)f(x_2, y)$, for all $y \in Y$ and f is said to be t -concavelike on Y , if and only if for all $y_1, y_2 \in Y$, there exists $y_3 \in Y$ such that $f(x, y_3) \geq tf(x, y_1) + (1 - t)f(x, y_2)$, for all $x \in X$. We say that f is convexlike on X , a concept due to Fan, (resp. concavelike on Y) if and only if f is t -convexlike on X (resp. f is t -concavelike on Y) for every $t \in (0, 1)$. Clearly, a convex (resp. concave) function on a convex set is convexlike (resp. concavelike) but the converse is not true in general. The more general notions of infsup-convexity and supinf-concavity will be given in Definition 1 and Proposition 1. Several properties of these concepts and their uses can be found in [23, 25, 18, 8, 9, 10]. We say that f has a property (P) on X (resp. on Y) if the function $f(\cdot, y)$ (resp. $f(x, \cdot)$) has the property (P) for every $y \in Y$ (resp. for every $x \in X$). In general, the properties that concern us in this paper will be (P) = "boundedness", "semicontinuity", "convexity" or "generalized convexity".

The Fan minimax theorem in [12, Theorem 2] (see also [23, Theorem 11]) says that if Y is an arbitrary nonempty sets, X is a compact Hausdorff space and $f : X \times Y \rightarrow \mathbb{R}$ is a function, lower semicontinuous convexlike on X and concavelike on Y , then

$$\inf_{x \in X} \sup_{y \in Y} f(x, y) = \sup_{x \in Y} \inf_{y \in X} f(x, y). \quad (\bullet)$$

The Fan minimax theorem was extended by Simons in [22, Theorem 5c] (see also [23, Theorem 26]) to two-functions minimax inequality as follows. Let Y be an arbitrary nonempty sets, X is a compact Hausdorff space, $t \in (0, 1)$ and $f, g : X \times Y \rightarrow \mathbb{R}$ be two functions such that:

- (i) f is t -convexlike and lower semicontinuous on X ,
- (ii) g is t -concavelike on Y ,
- (iii) $f \leq g$.

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Table of Contents Minimax Theorems Minimax Theorems

1. Understanding the eBook Minimax Theorems Minimax Theorems
 - The Rise of Digital Reading Minimax Theorems Minimax Theorems
 - Advantages of eBooks Over Traditional Books
2. Identifying Minimax Theorems Minimax Theorems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Minimax Theorems Minimax Theorems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Minimax Theorems Minimax Theorems
 - Personalized Recommendations
 - Minimax Theorems Minimax Theorems User Reviews and Ratings

- Minimax Theorems Minimax Theorems and Bestseller Lists
- 5. Accessing Minimax Theorems Minimax Theorems Free and Paid eBooks
 - Minimax Theorems Minimax Theorems Public Domain eBooks
 - Minimax Theorems Minimax Theorems eBook Subscription Services
 - Minimax Theorems Minimax Theorems Budget-Friendly Options
- 6. Navigating Minimax Theorems Minimax Theorems eBook Formats
 - ePub, PDF, MOBI, and More
 - Minimax Theorems Minimax Theorems Compatibility with Devices
 - Minimax Theorems Minimax Theorems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Minimax Theorems Minimax Theorems
 - Highlighting and Note-Taking Minimax Theorems Minimax Theorems
 - Interactive Elements Minimax Theorems Minimax Theorems
- 8. Staying Engaged with Minimax Theorems Minimax Theorems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Minimax Theorems Minimax Theorems
- 9. Balancing eBooks and Physical Books Minimax Theorems Minimax Theorems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Minimax Theorems Minimax Theorems
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Minimax Theorems Minimax Theorems
 - Setting Reading Goals Minimax Theorems Minimax Theorems
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Minimax Theorems Minimax Theorems
 - Fact-Checking eBook Content of Minimax Theorems Minimax Theorems
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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