Solution to Problem Set One – Preferences

Lecture Notes in Microeconomic Theory by Ariel Rubinstein

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1. Let $\succeq$ be a preference relation on a set X. Define $I(x)$ to be the set of all $y \in X$ for which $y \sim x$. Show that the set (of sets!) $\{I(x)|x \in X\}$ is a partition of X, ie.

   (a) $\forall x \in X$, $I(x) \neq \emptyset$.

   (b) $\forall x \in X$, $\exists y \in X$ such that $x \in I(y)$.

   (c) $\forall x, y \in X$, either $I(x) = I(y)$ or $I(x) \cap I(y) = \emptyset$.

   Proof of (a) and (b) Choose any $x \in X$. By the reflexivity of $\succeq$,[1] it follows $x \sim x \Rightarrow x \in I(x)$. □

   Proof of (c) Choose any $x, y \in X$, and assume that $I(x) \cap I(y) \neq \emptyset$, ie $\exists z \in I(x) \cap I(y)$. Choose any $a \in I(x) \Rightarrow a \sim x$. Moreover, since $x \sim z$, the transitivity of $\sim$[2] implies that $a \sim z$.

   In addition, note that $z \in I(y) \Rightarrow z \sim y \Rightarrow a \sim y$, again by transitivity. Therefore, $I(x) \subseteq I(y)$. A symmetric argument can be used to show that $I(y) \subseteq I(x)$. Consequently, if $I(x) \cap I(y) \neq \emptyset$, then $I(x) = I(y)$. ∎

2. Kreps (1990) introduces another formal definition for preferences. His primitive is a binary relation P interpreted as "strictly preferred." He requires P to satisfy:

   Asymmetry For no x, y do we have both xPy and yPx.

   Negative-Transitivity $\forall x, y, z \in X$, if xPy, then either xPz or zPy (or both).

   Explain the sense in which Kreps' formalization is equivalent to the traditional definition.

   Kreps' formalization and the traditional formalization are equivalent. This proof will closely follow the one presented on pages 6–8 of the lecture notes. The following steps are required to complete the proof:

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[1] Reflexivity of $\succeq$ is implied by definition: By the completeness of $\succeq$, we know $x \succeq x \Rightarrow x \sim x$.

[2] Transitivity of $\sim$ follows directly from the transitivity of $\succeq$; try proving this as an exercise.

Solutions To Problem Set Rubinstein Manual

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Table of Contents Solutions To Problem Set Rubinstein Manual

1. Understanding the eBook Solutions To Problem Set Rubinstein Manual
    - The Rise of Digital Reading Solutions To Problem Set Rubinstein Manual
    - Advantages of eBooks Over Traditional Books
2. Identifying Solutions To Problem Set Rubinstein Manual
    - 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 Solutions To Problem Set Rubinstein Manual
    - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions To Problem Set Rubinstein Manual
    - Personalized Recommendations

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