Notes from MWG's Microeconomic Theory

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Ch. 1 Preference and Choice

0.1 Preference Relations

Axioms of Preference:

- i. $x \succ y$. x is "strictly" preffered to y if and only if (iff) $x \succeq y$ but $y \not\succeq x$. Note: $x \succeq y$ is an atleast as good as relation. That is, x is at least as good as y.
- ii. $x \sim y$. Then, x is indifferent to y. Thus, $x \succeq y$ and $y \succeq x$.

Definition: We call a relation rational if it is both **complete** and **transitive**. Consider the set of goods, X.

- i. Completeness: $\forall x, y \in X$ either $x \succeq y$ or $y \succeq x$ or both.
- ii. Transitivity: $\forall x, y, z \in X$ if $x \succeq y$ and $y \succeq z$ then $x \succeq z$.

Proposition: It follows, that if \succeq is rational then:

i. \succ is irreflexive

Ch. 2 Consumer Choice

Walrasian budget set, $X = \mathbb{R}_+^L$