

Maps and Systems of Sets

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Definition 0.1. A map between systems of sets is a map from some system of sets to some system of sets.

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Definition 0.2. Let f be a map between systems of sets. f is subset preserving iff $x \subseteq y$ implies $f(x) \subseteq f(y)$ for all $x, y \in \text{dom}(f)$.

Let f preserve subsets stand for f is subset preserving.