Definition 1. A *map between systems of sets* is a map from some system of sets to some system of sets.

Definition 2. Let f be a map between systems of sets. f is *subset preserving* iff $x \subset y \implies f(x) \subset f(y)$ for all $x, y \in \mathrm{dom}(f)$. Let f *preserves subsets* stand for f is subset preserving.