Definition 1. Let A be a class.

$$A^{<\infty} := \{f \mid f \text{ is a map from } \alpha \text{ to } A \text{ for some ordinal } \alpha\}.$$

Proposition 2. Let A be a class and f be a map to A such that $\mathrm{dom}(f)$ is a transitive subclass of $\mathbb{O}$ and $\alpha \in \mathrm{dom}(f)$. Then $f \restriction \alpha \in A^{<\infty}$.

[prover vampire]

Definition 3. Let H be a map and $G : A^{<\infty} \to A$ for some class A such that H is a map to A. H is *recursive regarding* G iff $\mathrm{dom}(H)$ is a transitive subclass of $\mathbb{O}$ and for all $\alpha \in \mathrm{dom}(H)$ we have

$$H(\alpha) = G(H \restriction \alpha).$$

[prover eprover]