

Constant Maps

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Definition 0.1. Let f be a map. f is constant iff there exists an object a such that $f(x) = a$ for all $x \in \text{dom}(f)$.

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Definition 0.2. Let A be a class and a be an object. const_A^a is the map f such that $\text{dom}(f) = A$ and $f(x) = a$ for all $x \in A$.

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Proposition 0.3. Let A be a nonempty class and a be an object. const_A^a is a surjective map from A onto $\{a\}$.