1. An object in $\alpha \in Ob_{Draw}$ is a black-and-white drawing, that is a function $\alpha: \mathbb{R}^2 \to \mathbf{Bool}$.

3. The identity function at any object α is the identity map on \mathbb{R}^2 .

Definition (Drawings)

There exists a category **Draw** in which:

- 2. A morphism in $Hom_{Draw}(\alpha; \beta)$ between two drawings α and β is an invert-
- ible map $f: \mathbb{R}^2 \to \mathbb{R}^2$ such that $\alpha(x) = \beta(f(x))$.

4. Composition is given by function composition.