

$$\boxed{\begin{array}{l} \textit{square} : \mathbb{N} \longrightarrow \mathbb{N} \\ \hline \forall n : \mathbb{N} \bullet \textit{square}(n) = n * n \end{array}}$$

$$\boxed{\begin{array}{l} \textit{predecessor} : \mathbb{N} \rightarrowtail \mathbb{N} \\ \hline \forall n : \mathbb{N} \bullet n > 0 \Rightarrow \textit{predecessor}(n) = n - 1 \end{array}}$$

$$\boxed{\begin{array}{l} [X] \\ \hline \textit{identity} : X \longrightarrow X \\ \hline \forall x : X \bullet \textit{identity}(x) = x \end{array}}$$

$$\boxed{\begin{array}{l} [X, Y] \\ \hline \textit{proj1} : X \times Y \longrightarrow X \\ \hline \forall x : X \bullet \forall y : Y \bullet \textit{proj1}(x, y) = x \end{array}}$$