

deq^{11,40}

$$\text{EqDecider}(T) \equiv_{\text{def}} \text{eq}(T \rightarrow T \rightarrow \mathbb{B}) \times (\forall x, y: T. (x = y) \iff (\uparrow(\text{eq}(x, y))))$$

clarification:

$$\text{EqDecider}(T) \equiv_{\text{def}} \text{eq}(T \rightarrow T \rightarrow \mathbb{B}) \times (\forall x: T, y: T. (x = y \in T) \iff (\uparrow(\text{eq}(x, y))))$$