

t134\_relat\_1  
 (TMV21RF53pGxq2LypsVpnKXFdK2q7vEVbFc)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k8\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.\forall X2.(X2 = k8\_relat\_1 \\ X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow (\exists X4.(k4\_tarski X3 X4 \in X0) \wedge \\ (X4 \in X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(X1 = k10\_xtuple\_0 X0) \Leftrightarrow (\forall X2.(X2 \in \\ X1) \Leftrightarrow (\exists X3.k4\_tarski X3 X2 \in X0)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(X1 = k9\_xtuple\_0 X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow \\ (\exists X3.k4\_tarski X2 X3 \in X0)) \end{aligned} \quad (3)$$

**Theorem 1**

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow (k8\_relat\_1 X0 (k10\_xtuple\_0 X0) = \\ k9\_xtuple\_0 X0)$$