

t132_member_1 (TMMDnSeS- CUPF7v7BkttrV6pxuPCkAumFK1A)

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Let $v2_membered : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v2_membered\ X0) \Rightarrow (\forall X1.(v2_membered\ X1) \Rightarrow (\forall X2. \\ (v1_xxreal_0\ X2) \Rightarrow (\forall X3.(v1_xxreal_0\ X3) \Rightarrow (((X2 \in X0) \wedge (X3 \in \\ X1)) \Rightarrow (k1_xxreal_3\ X2\ X3 \in k8_member_1\ X0\ X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0\ X0) \Rightarrow (v2_membered\ (k1_tarski\ X0)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (3)$$

Assume the following.

$$\forall X0.(v2_membered\ X0) \Rightarrow (\forall X1.(v1_xxreal_0\ X1) \Rightarrow (k16_member_1\ X0\ X1 = k8_member_1\ (k1_tarski\ X1)\ X0)) \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.(v2_membered\ X0) \Rightarrow (\forall X1.(v1_xxreal_0\ X1) \Rightarrow (\forall X2. \\ (v1_xxreal_0\ X2) \Rightarrow ((X1 \in X0) \Rightarrow (k1_xxreal_3\ X2\ X1 \in k16_member_1\ X0 \\ X2)))) \end{aligned}$$