t29_membered (TMXnSzDQku-vGLVioM6DN1z6PTc7p3XwgkHk)

October 27, 2020

Let $v5\_membered : \iota \Rightarrow o$ be given. Let $k3\_tarski : \iota \Rightarrow \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v5\_membered\ X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow (v1\_int\_1\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k3\_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (\exists X3.(X2 \in X3) \wedge (X3 \in X0))) \tag{2}$$

Theorem 1

$$\forall X0.(\forall X1.(X1 \in X0) \Rightarrow (v5\_membered\ X1)) \Rightarrow (v5\_membered\ (k3\_tarski\ X0))$$