

l14_ens_1 (TMRUWK-
SLnjK EKRp4ckG5j3obUXVmYWraiS4)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_ens_1 : \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_ens_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ens_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k2_ens_1 \\ X0)) \Rightarrow (X1 = k4_tarski (k1_domain_1 X0 X0 (k3_ens_1 X0 X1) (k4_ens_1 \\ X0 X1)) (k2_xtuple_0 X1))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k2_ens_1 \\ X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 (k2_ens_1 X0)) \Rightarrow (((k2_xtuple_0 \\ X1 = k2_xtuple_0 X2) \wedge ((k3_ens_1 X0 X1 = k3_ens_1 X0 X2) \wedge (k4_ens_1 \\ X0 X1 = k4_ens_1 X0 X2))) \Rightarrow (X1 = X2)))) \end{aligned}$$