

t113_member_1
(TMWqsef4hjXcK8jdF8raYEpXKo7RcV2Rq8r)

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Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k14_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k6_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_member_1 : \iota \Rightarrow \iota$ be given. Let $k5_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0 X2) \Rightarrow (k12_member_1 (k1_tarski X0) (k2_tarski X1 X2) = \\ & k2_tarski (k4_xxreal_3 X0 X1) (k4_xxreal_3 X0 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k6_member_1 (k1_tarski X0) = k1_tarski (k5_xxreal_3 X0)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (v2_membered (k1_tarski X0)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (v2_membered (k2_tarski X0 X1)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (v1_xxreal_0 (k5_xxreal_3 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (k6_xxreal_3 X0 X1 = k4_xxreal_3 X0 (k5_xxreal_3 X1))) \quad (6)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(v2_membered X1) \Rightarrow (k14_member_1 X0 X1 = k12_member_1 X0 (k6_member_1 X1))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0)\wedge(v1_xxreal_0 X1))\Rightarrow(k4_xxreal_3 X0 X1 = k4_xxreal_3 X1 X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski X0 X1 = k2_tarski X1 X0 \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v2_membered X0)\wedge(v2_membered X1))\Rightarrow(k12_member_1 X0 X1 = k12_member_1 X1 X0) \quad (10)$$

Theorem 1

$$\forall X0.(v1_xxreal_0 X0)\Rightarrow(\forall X1.(v1_xxreal_0 X1)\Rightarrow(\forall X2.(v1_xxreal_0 X2)\Rightarrow(k14_member_1 (k2_tarski X0 X1) (k1_tarski X2) = k2_tarski (k6_xxreal_3 X0 X2) (k6_xxreal_3 X1 X2))))$$