

t63_member_1
(TMX6f28DqYmoFgqA8mGq3copCLT93UNqbiF)

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Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k10_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k3_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_member_1 : \iota \Rightarrow \iota$ be given. Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $k8_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k4_member_1 (k1_tarski X0) = k1_tarski (k2_xxreal_3 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2.(v1_xxreal_0 X2) \Rightarrow (k8_member_1 (k1_tarski X0) (k2_tarski X1 X2) = k2_tarski (k1_xxreal_3 X0 X1) (k1_xxreal_3 X0 X2)))) \quad (2)$$

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.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (v1_xxreal_0 (k2_xxreal_3 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(v2_membered X1) \Rightarrow (k10_member_1 X0 X1 = k8_member_1 X0 (k4_member_1 X1))) \quad (6)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (k3_xxreal_3 X0 X1 = k1_xxreal_3 X0 (k2_xxreal_3 X1))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v2_membered\ X0)\wedge(v2_membered\ X1))\Rightarrow(k8_member_1\ X0\ X1 = k8_member_1\ X1\ X0) \quad (8)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0\ X0)\wedge(v1_xxreal_0\ X1))\Rightarrow(k1_xxreal_3\ X0\ X1 = k1_xxreal_3\ X1\ X0) \quad (10)$$

Theorem 1

$$\forall X0.(v1_xxreal_0\ X0)\Rightarrow(\forall X1.(v1_xxreal_0\ X1)\Rightarrow(\forall X2.(v1_xxreal_0\ X2)\Rightarrow(k10_member_1\ (k2_tarski\ X0\ X1)\ (k1_tarski\ X2) = k2_tarski\ (k3_xxreal_3\ X0\ X2)\ (k3_xxreal_3\ X1\ X2))))$$