

t64_member_1
(TMLD6HL6kStsAtukmnho2AGUit8qDgzMFob)

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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 $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k4_member_1 : \iota \Rightarrow \iota$ be given. Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0 X2) \Rightarrow (\forall X3.(v1_xxreal_0 X3) \Rightarrow (k8_member_1 \\ & (k2_tarski X0 X1) (k2_tarski X2 X3) = k2_enumset1 (k1_xxreal_3 X0 \\ & X2) (k1_xxreal_3 X0 X3) (k1_xxreal_3 X1 X2) (k1_xxreal_3 X1 X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (k4_member_1 \\ & (k2_tarski X0 X1) = k2_tarski (k2_xxreal_3 X0) (k2_xxreal_3 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (\\ & v2_membered (k2_tarski X0 X1)) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (v1_xxreal_0 (k2_xxreal_3 X0)) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v2_membered X0) \Rightarrow (\forall X1.(v2_membered X1) \Rightarrow (k10_member_1 \\ & X0 X1 = k8_member_1 X0 (k4_member_1 X1))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (k3_xxreal_3 \\ & X0 X1 = k1_xxreal_3 X0 (k2_xxreal_3 X1))) \end{aligned} \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0 X2) \Rightarrow (\forall X3.(v1_xxreal_0 X3) \Rightarrow (k10_member_1 \\ & (k2_tarski X0 X1) (k2_tarski X2 X3) = k2_enumset1 (k3_xxreal_3 X0 \\ & X2) (k3_xxreal_3 X0 X3) (k3_xxreal_3 X1 X2) (k3_xxreal_3 X1 X3)))))) \end{aligned}$$