

t75_xxreal_2

(TMbB1WnRwdVkfTHw9Yw33MpYMscT4hFS7Cq)

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Let $v2_membered : \iota \Rightarrow o$ be given. Let $v1_xxreal_2 : \iota \Rightarrow o$ be given. Let $v2_xxreal_2 : \iota \Rightarrow o$ be given. Let $v6_xxreal_2 : \iota \Rightarrow o$ be given. Let $k1_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $k1_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (r1_tarski X0 (k1_xxreal_1 (k2_xxreal_2 X0) (k1_xxreal_2 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow ((v2_xxreal_2 X0) \Leftrightarrow (k1_xxreal_2 X0 \in X0)) \quad (2)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow ((v1_xxreal_2 X0) \Leftrightarrow (k2_xxreal_2 X0 \in X0)) \quad (3)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow (v1_xxreal_0 X1)) \quad (4)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow ((v6_xxreal_2 X0) \Leftrightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2.(v1_xxreal_0 X2) \Rightarrow (((X1 \in X0) \wedge (X2 \in X0)) \Rightarrow (r1_tarski (k1_xxreal_1 X1 X2) X0)))))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (6)$$

Theorem 1

$$\forall X0.((v2_membered X0) \wedge ((v1_xxreal_2 X0) \wedge ((v2_xxreal_2 X0) \wedge (v6_xxreal_2 X0)))) \Rightarrow (X0 = k1_xxreal_1 (k2_xxreal_2 X0) (k1_xxreal_2 X0))$$