

t47_seq_4
(TMRDY1WeneQycBebib3ozhr86cjATcuJVUf)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_xxreal_2 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_seq_4 : \iota \Rightarrow \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Let $k2_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(v2_membered X1) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (r1_xxreal_0 (k2_xxreal_2 X1) (k2_xxreal_2 X0)))) \quad (1)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(v2_membered X1) \Rightarrow ((r1_tarski X0 X1) \wedge (v3_xxreal_2 X1)) \Rightarrow (v3_xxreal_2 X0)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge ((v3_membered X0) \wedge (v3_xxreal_2 X0))) \Rightarrow (k3_seq_4 X0 = k2_xxreal_2 X0) \quad (4)$$

Assume the following.

$$\forall X0.(v3_membered X0) \Rightarrow (v2_membered X0) \quad (5)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v1_xboole_0 X1)) \quad (6)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v3_membered X0)) \Rightarrow (\forall X1.(v3_membered X1) \Rightarrow (((r1_tarski X0 X1) \wedge (v3_xxreal_2 X1)) \Rightarrow (r1_xxreal_0 (k3_seq_4 X1) (k3_seq_4 X0))))$$