

t70_xxreal_2 (TMT-
frzK2eFWBEEN1rCCQQ2JuEiAfiDiW2La)

October 27, 2020

Let $v2_membered : \iota \Rightarrow o$ be given. Let $k1_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $k2_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v3_xxreal_0 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ 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.

$$k1_xxreal_2 k1_xboole_0 = k2_xxreal_0 \quad (2)$$

Assume the following.

$$k2_xxreal_2 k1_xboole_0 = k1_xxreal_0 \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski X0 (k1_tarski X1)) \Leftrightarrow ((X0 = k1_xboole_0) \vee (X0 = k1_tarski X1)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k1_xxreal_1 X0 X0 = k1_tarski X0) \quad (5)$$

Assume the following.

$$v3_xxreal_0 k2_xxreal_0 \quad (6)$$

Assume the following.

$$v2_xxreal_0 k1_xxreal_0 \quad (7)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (v1_xxreal_0 (k1_xxreal_2 X0)) \quad (8)$$

Assume the following.

$$\forall X0.((v1_xxreal_0 X0) \wedge (v3_xxreal_0 X0)) \Rightarrow ((\neg v1_xboole_0 X0) \wedge ((v1_xxreal_0 X0) \wedge (\neg v2_xxreal_0 X0))) \quad (9)$$

Theorem 1

$$\forall X0.(v2_membered\ X0) \Rightarrow ((k1_xxreal_2\ X0 = k2_xxreal_2\ X0) \Rightarrow (X0 = k1_tarski\ (k2_xxreal_2\ X0)))$$