

t20_borsuk_4

(TMdTJm8QmGdxaXePa3qjFDF3MfT4spv8rZ3)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_seq_4 : \iota \Rightarrow \iota$ be given. Let $v2_measure5 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xxreal_0 X0) \Rightarrow (k1_xxreal_1 X0 X0 = k1_tarski X0) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (((\neg v1_xboole_0 \\ X0) \wedge (v2_measure5 X0)) \Leftrightarrow (\exists X1. (m1_subset_1 X1 k1_numbers) \wedge \\ (\exists X2. (m1_subset_1 X2 k1_numbers) \wedge ((r1_xxreal_0 X1 X2) \wedge \\ (X0 = k1_rcomp_1 X1 X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. (v1_xreal_0 X0) \Rightarrow (k1_seq_4 X0 = k1_tarski X0) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \Rightarrow (k1_rcomp_1 X0 X1 = k1_xxreal_1 X0 X1) \quad (5)$$

Assume the following.

$$\forall X0. (v1_xxreal_0 X0) \Rightarrow (m1_subset_1 (k1_seq_4 X0) (k1_zfmisc_1 k1_numbers)) \quad (6)$$

Assume the following.

$$\forall X0. (v1_xreal_0 X0) \Leftrightarrow (X0 \in k1_numbers) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0)\wedge(v1_xxreal_0 X1))\Rightarrow((r1_xxreal_0 X0 X1)\vee(r1_xxreal_0 X1 X0)) \quad (8)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0)\Rightarrow(v1_xxreal_0 X0) \quad (9)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0)\Rightarrow((\neg v1_xboole_0 (k1_seq_4 X0))\wedge((v2_measure5 (k1_seq_4 X0))\wedge(m1_subset_1 (k1_seq_4 X0) (k1_zfmisc_1 k1_numbers))))$$