

t43_borsuk_5 (TMJxu-
vHdJ8k7UJi5nqNKRyEuwg7fp5TWTBW)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k3_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k1_seq_4 : \iota \Rightarrow \iota$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k4_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_measure5 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k3_limfunc1 : \iota \Rightarrow \iota$ be given. Let $k2_limfunc1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (k2_xxreal_1 X0 \ k1_xxreal_0 = k2_xboole_0 \ (k1_tarski X0) \ (k4_xxreal_1 X0 \ k1_xxreal_0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (k2_xxreal_1 X0 \ k1_xxreal_0 = ReplSep \ (toset \ (\lambda X1 : \iota.m1_subset_1 X1 \ k1_numbers)) \ (\lambda X1 : \iota. \ r1_xxreal_0 X0 \ X1) \ (\lambda X1 : \iota.X1)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow ((\neg v1_xboole_0 (k1_seq_4 X0)) \wedge ((v2_measure5 (k1_seq_4 X0)) \wedge (m1_subset_1 (k1_seq_4 X0) (k1_zfmisc_1 \ k1_numbers)))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 \ X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 X0))) \Rightarrow (k4_subset_1 X0 X1 X2 = \ k2_xboole_0 X1 X2) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (k3_rcomp_1 \ X0 \ X1 = k2_xxreal_1 X0 X1) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0)\wedge(v1_xxreal_0 X1))\Rightarrow(k2_rcomp_1 X0 X1 = k4_xxreal_1 X0 X1) \quad (6)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0)\Rightarrow(k1_seq_4 X0 = k1_tarski X0) \quad (7)$$

Assume the following.

$$v1_xxreal_0 k1_xxreal_0 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0)\wedge(v1_xxreal_0 X1))\Rightarrow(m1_subset_1 (k2_rcomp_1 X0 X1) (k1_zfmisc_1 k1_numbers)) \quad (9)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0)\Rightarrow(k3_limfunc1 X0 = k4_xxreal_1 X0 k1_xxreal_0) \quad (10)$$

Assume the following.

$$k1_xxreal_0 = k1_numbers \quad (11)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0)\Rightarrow(k2_limfunc1 X0 = k2_xxreal_1 X0 k1_xxreal_0) \quad (12)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0)\Rightarrow(v1_xxreal_0 X0) \quad (13)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0)\Rightarrow(k3_rcomp_1 X0 k1_xxreal_0 = k4_subset_1 k1_numbers (k1_seq_4 X0) (k2_rcomp_1 X0 k1_xxreal_0))$$