

t40_borsuk_7

(TMcKohoKEs6JsjuXG3p23PcpH4VLRcQeEe)

October 27, 2020

Let $k30_valued_1 : \iota \Rightarrow \iota$ be given. Let $k8_borsuk_7 : \iota$ be given. Let $k9_borsuk_7 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k4_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $k4_euclid_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_2 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_0 : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k6_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k11_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k1_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k1_numbers) \Rightarrow (k4_algstr_0 \\ (k15_euclid np_3) (k4_euclid_5 X0 X1 X2) = k4_euclid_5 (k1_real_1 \\ X0) (k1_real_1 X1) (k1_real_1 X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$(m2_subset_1\ np_0\ k1_numbers\ k5_numbers) \wedge ((m1_subset_1\ np_0\ k5_numbers) \wedge (m1_subset_1\ np_0\ k1_numbers)) \quad (5)$$

Assume the following.

$$v1_xboole_0\ np_0 \quad (6)$$

Assume the following.

$$k4_xcmplx_0\ np_0 = np_0 \quad (7)$$

Assume the following.

$$k2_xcmplx_0\ np_2\ np_1 = np_3 \quad (8)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0) \wedge ((v1_funct_1\ X0) \wedge ((v3_valued_0\ X0) \wedge (v1_finseq_1\ X0)))) \Rightarrow (k6_rvsum_1\ X0 = k30_valued_1\ X0) \quad (9)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (10)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_xreal_0\ X0) \wedge ((v1_xreal_0\ X1) \wedge (v1_xreal_0\ X2))) \Rightarrow (k4_euclid_5\ X0\ X1\ X2 = k11_finseq_1\ X0\ X1\ X2) \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (k1_real_1\ X0 = k4_xcmplx_0\ X0) \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v7_ordinal1\ X0) \wedge ((m1_subset_1\ X1\ (u1_struct_0\ (k15_euclid\ X0))) \wedge ((v1_relat_1\ X2) \wedge ((v1_funct_1\ X2) \wedge ((v1_finseq_1\ X2) \wedge (v3_valued_0\ X2)))))) \Rightarrow ((X1 = X2) \Rightarrow (k4_algstr_0\ (k15_euclid\ X0)\ X1 = k6_rvsum_1\ X2)) \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(v1_relat_1\ (k11_finseq_1\ X0\ X1\ X2)) \wedge (v1_funct_1\ (k11_finseq_1\ X0\ X1\ X2)) \quad (15)$$

Assume the following.

$$v6_membered\ k4_ordinal1 \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(v7_ordinal1\ X1))\Rightarrow(v7_ordinal1\ (k2_xcmplx_0\ X0\ X1)) \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_xreal_0\ X0)\wedge((v1_xreal_0\ X1)\wedge(v1_xreal_0\ X2)))\Rightarrow(m1_subset_1\ (k4_euclid_5\ X0\ X1\ X2)\ (u1_struct_0\ (k15_euclid\ np_3))) \quad (18)$$

Assume the following.

$$k9_borsuk_7 = k4_euclid_5\ (k1_real_1\ np_1)\ k6_numbers\ k6_numbers \quad (19)$$

Assume the following.

$$k8_borsuk_7 = k4_euclid_5\ np_1\ k6_numbers\ k6_numbers \quad (20)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k15_euclid\ X0)))\Rightarrow(v3_valued_0\ X1)) \quad (21)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k15_euclid\ X0)))\Rightarrow(v1_finseq_1\ X1)) \quad (22)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(v1_xreal_0\ X0) \quad (23)$$

Assume the following.

$$\forall X0.(v6_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v7_ordinal1\ X1)) \quad (24)$$

Theorem 1 $k30_valued_1\ k8_borsuk_7 = k9_borsuk_7$.