

t12_borsuk_7

(TMN69YxVw2taz4ZmW6c6rBeDYPeKyHJRheE)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k17_complex1 : \iota \Rightarrow \iota$ be given. Let $k1_comptrig : \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k21_sin_cos : \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18_sin_cos : \iota \Rightarrow \iota$ be given. Let $k7_complex1 : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k1_xcmplx_0 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k31_sin_cos : \iota$ be given. Let $k2_complex2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (r1_xxreal_0 k6_numbers (k17_complex1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow ((r1_xxreal_0 k6_numbers (k1_comptrig X0)) \wedge (\neg r1_xxreal_0 (k8_real_1 np_2 k32_sin_cos) (k1_comptrig X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k2_xcmplx_0 X0 k6_numbers = X0) \quad (3)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow ((r1_xxreal_0 k6_numbers X0) \Rightarrow (k1_comptrig X0 = k6_numbers)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (X0 = k2_xcmplx_0 (k8_real_1 (k17_complex1 X0) (k21_sin_cos (k1_comptrig X0))) (k3_xcmplx_0 (k8_real_1 (k17_complex1 X0) (k18_sin_cos (k1_comptrig X0))) k7_complex1)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers)\wedge(v1_xreal_0 X1))\Rightarrow(k7_real_1 X0 X1 = k2_xcmplx_0 X0 X1) \quad (6)$$

Assume the following.

$$k7_complex1 = k1_xcmplx_0 \quad (7)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (8)$$

Assume the following.

$$k32_sin_cos = k31_sin_cos \quad (9)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0)\Rightarrow(k17_complex1 (k17_complex1 X0) = k17_complex1 X0) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers)\Rightarrow(\forall X1.(v1_xcmplx_0 X1)\Rightarrow(\forall X2.(v1_int_1 X2)\Rightarrow(k2_complex2 X1 X0 = k2_complex2 X1 (k7_real_1 X0 (k8_real_1 (k8_real_1 np_2 k32_sin_cos) X2)))))) \quad (11)$$

Assume the following.

$$v3_membered k1_numbers \quad (12)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0)\Rightarrow(m1_subset_1 (k1_comptrig X0) k1_numbers) \quad (13)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0)\Rightarrow(m1_subset_1 (k17_complex1 X0) k1_numbers) \quad (14)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 k1_numbers)\Rightarrow(k2_complex2 X0 X1 = k2_xcmplx_0 (k8_real_1 (k17_complex1 X0) (k21_sin_cos (k7_real_1 X1 (k1_comptrig X0)))) (k3_xcmplx_0 (k8_real_1 (k17_complex1 X0) (k18_sin_cos (k7_real_1 X1 (k1_comptrig X0)))) k7_complex1))) \quad (15)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers)\Rightarrow(v1_xcmplx_0 X0) \quad (16)$$

Assume the following.

$$\forall X0.(v3_membered X0)\Rightarrow(\forall X1.(m1_subset_1 X1 X0)\Rightarrow(v1_xreal_0 X1)) \quad (17)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0 X2) \Rightarrow (((k17_complex1 X1 = k17_complex1 X2) \wedge (k1_comptrig \\ & X1 = k7_real_1 (k1_comptrig X2) (k8_real_1 (k8_real_1 np_2 k32_sin_cos) \\ & X0))) \Rightarrow (X1 = X2)))) \end{aligned}$$