

t34_ec_pf_1

(TMb3E4b1RWKs11CTSFG95VDYjc74qBJPsLy)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k9_int_3 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k2_ec_pf_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v2_ec_pf_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((\neg r1_xxreal_0 np_1 X0) \Rightarrow (X0 = k6_numbers)) \quad (1)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (2)$$

Assume the following.

$$k4_xcmplx_0 (k4_xcmplx_0 np_1) = np_1 \quad (3)$$

Assume the following.

$$k4_xcmplx_0 np_0 = np_0 \quad (4)$$

Assume the following.

$$\neg r1_xxreal_0 np_1 np_0 \quad (5)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v7_ordinal1 X0) \wedge (v1_int_2 X0)) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 (u1_struct_0 (k9_int_3 X0))) \Rightarrow (((X1 = k6_numbers) \Rightarrow (k2_ec_pf_1 \\ & X0 X1 = k6_numbers)) \wedge (((v2_ec_pf_1 X1 X0) \Rightarrow (k2_ec_pf_1 X0 X1 = np_1)) \wedge \\ & (\neg (X1 \neq k6_numbers) \wedge ((\neg v2_ec_pf_1 X1 X0) \wedge (k2_ec_pf_1 X0 X1 \neq k4_xcmplx_0 \\ & np_1)))))) \end{aligned} \quad (7)$$

Assume the following.

$$k1_xboole_0 = the (\lambda X0 : \iota.v1_xboole_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v7_ordinal1 X0) \quad (9)$$

Theorem 1

$$\forall X0.((v7_ordinal1 X0) \wedge (v1_int_2 X0)) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k9_int_3 X0))) \Rightarrow ((X1 = k6_numbers) \Leftrightarrow (k2_ec_pf_1 X0 X1 = k6_numbers)))$$