

t33_ec_pf_1

(TMaiLWDYqzdXvxb5yAn7ES3Y2JsT8ZZq5V7)

October 27, 2020

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 $v2_ec_pf_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_ec_pf_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k2_binom : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Assume the following.

$$\forall X0.((v7_ordinal1 X0) \wedge (v1_int_2 X0)) \Rightarrow (np_1 = k5_struct_0 (k9_int_3 X0)) \quad (1)$$

Assume the following.

$$r1_xxreal_0 (k4_xcmplx_0 np_1) (k4_xcmplx_0 np_1) \quad (2)$$

Assume the following.

$$\neg r1_xxreal_0 np_1 (k4_xcmplx_0 np_1) \quad (3)$$

Assume the following.

$$\forall X0.((v7_ordinal1 X0) \wedge (v1_int_2 X0)) \Rightarrow (v2_ec_pf_1 (k5_struct_0 (k9_int_3 X0)) X0) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.((v7_ordinal1 X0) \wedge (v1_int_2 X0)) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 (u1_struct_0 (k9_int_3 X0))) \Rightarrow (((X1 = k6_numbers) \Rightarrow (k2_ec_pf_1 \\ X0 X1 = k6_numbers)) \wedge ((v2_ec_pf_1 X1 X0) \Rightarrow (k2_ec_pf_1 X0 X1 = np_1)) \wedge \\ (\neg (X1 \neq k6_numbers) \wedge ((\neg v2_ec_pf_1 X1 X0) \wedge (k2_ec_pf_1 X0 X1 \neq k4_xcmplx_0 \\ np_1)))))) \quad (5) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0.((v7_ordinal1 X0) \wedge (v1_int_2 X0)) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 (u1_struct_0 (k9_int_3 X0))) \Rightarrow ((v2_ec_pf_1 X1 X0) \Leftrightarrow ((X1 \neq k6_numbers) \wedge \\ (\exists X2.(m1_subset_1 X2 (u1_struct_0 (k9_int_3 X0))) \wedge (k2_binom \\ (k9_int_3 X0) X2 np_2 = X1)))))) \quad (6) \end{aligned}$$

Theorem 1

$$\forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k9_int_3\ X0)))\Rightarrow((v2_ec_pf_1\ X1\ X0)\Leftrightarrow(k2_ec_pf_1\ X0\ X1 = np_1)))$$