

t32_ec_pf_1
(TMW5ovEUSUobjbYrPymwFxfz5hQHR934nZN)

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 $v3_ec_pf_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_ec_pf_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v3_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v2_ec_pf_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_binom : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Assume the following.

$$m1_subset_1 \ k1_xboole_0 \ k4_ordinal1 \tag{1}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \tag{2}$$

Assume the following.

$$k4_xcmplx_0 \ (k4_xcmplx_0 \ np_1) = np_1 \tag{3}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{4}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{5}$$

Assume the following.

$$\forall X0. ((\neg v3_xxreal_0 \ X0) \wedge (v1_xreal_0 \ X0)) \Rightarrow ((v1_xcmplx_0 \ (k4_xcmplx_0 \ X0)) \wedge (\neg v2_xxreal_0 \ (k4_xcmplx_0 \ X0))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\wedge(m1_subset_1\ X1\ (u1_struct_0\ (k9_int_3\ X0))))\Rightarrow(v1_int_1\ (k2_ec_pf_1\ X0\ X1)) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k9_int_3\ X0)))\Rightarrow(((X1 = k6_numbers)\Rightarrow(k2_ec_pf_1\ X0\ X1 = k6_numbers))\wedge((v2_ec_pf_1\ X1\ X0)\Rightarrow(k2_ec_pf_1\ X0\ X1 = np_1))\wedge(\neg(X1\neq k6_numbers)\wedge(\neg v2_ec_pf_1\ X1\ X0)\wedge(k2_ec_pf_1\ X0\ X1\neq k4_xcmplx_0\ np_1)))))) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k9_int_3\ X0)))\Rightarrow((v3_ec_pf_1\ X1\ X0)\Leftrightarrow((X1\neq k6_numbers)\wedge(\forall X2.(m1_subset_1\ X2\ (u1_struct_0\ (k9_int_3\ X0)))\Rightarrow(k2_binom\ (k9_int_3\ X0)\ X2\ np_2\neq X1)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k9_int_3\ X0)))\Rightarrow((v2_ec_pf_1\ X1\ X0)\Leftrightarrow((X1\neq k6_numbers)\wedge(\exists X2.(m1_subset_1\ X2\ (u1_struct_0\ (k9_int_3\ X0)))\wedge(k2_binom\ (k9_int_3\ X0)\ X2\ np_2 = X1)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0.(v1_int_1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (11)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(\neg v3_xreal_0\ X0) \quad (12)$$

Theorem 1

$$\begin{aligned} \forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k9_int_3\ X0)))\Rightarrow((v3_ec_pf_1\ X1\ X0)\Leftrightarrow(k2_ec_pf_1\ X0\ X1 = k4_xcmplx_0\ np_1))) \end{aligned}$$