

t28_ec_pf_2
(TMR3Xk5Ghp3t3kDMzVEz2BKf7KYac6tcneT)

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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 $k6_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_binom : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (((r1_xxreal_0 \\ k6_numbers X1) \Rightarrow ((r1_xxreal_0 X0 X1) \vee (k6_int_1 X1 X0 = X1))) \wedge ((\\ r1_xxreal_0 (k4_xcmplx_0 X0) X1) \Rightarrow ((r1_xxreal_0 k6_numbers X1) \vee \\ (k6_int_1 X1 X0 = k2_xcmplx_0 X0 X1)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.((v7_ordinal1 X1) \wedge (\\ v1_int_2 X1)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k9_int_3 \\ X1))) \Rightarrow (\neg(X2 \neq k6_numbers) \wedge (k2_binom (k9_int_3 X1) X2 X0 = k6_numbers)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.((v7_ordinal1 X0) \wedge (v1_int_2 X0)) \Rightarrow (k6_numbers = k4_struct_0 (k9_int_3 X0)) \quad (4)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$v1_xboole_0 \text{ } np_0 \tag{6}$$

Assume the following.

$$r1_xxreal_0 \text{ } np_0 \text{ } np_2 \tag{7}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{8}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{9}$$

Assume the following.

$$\forall X0.(m1_subset_1 \text{ } X0 \text{ } k4_ordinal1) \Rightarrow (v7_ordinal1 \text{ } X0) \tag{10}$$

Assume the following.

$$\forall X0.(v7_ordinal1 \text{ } X0) \Rightarrow (v1_int_1 \text{ } X0) \tag{11}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v7_ordinal1 \text{ } X0) \wedge (v1_int_2 \text{ } X0)) \Rightarrow (\forall X1.(v7_ordinal1 \\ & \quad X1) \Rightarrow (\forall X2.(m1_subset_1 \text{ } X2 \text{ } (u1_struct_0 \text{ } (k9_int_3 \text{ } X0))) \Rightarrow \\ & ((X2 = k6_int_1 \text{ } np_2 \text{ } X0) \Rightarrow ((r1_xxreal_0 \text{ } X0 \text{ } np_2) \vee ((X2 \neq k4_struct_0 \\ & \quad (k9_int_3 \text{ } X0)) \wedge (k2_binom \text{ } (k9_int_3 \text{ } X0) \text{ } X2 \text{ } X1 \neq k4_struct_0 \text{ } (k9_int_3 \\ & \quad \quad X0)))))) \end{aligned}$$