

t6_jordan1f
(TMS8n7JVLT1DkEpvKiNJgPyN4XdZxZ6eFZF)

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Let $v2_compts_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v1_sppol_1 : \iota \Rightarrow o$ be given. Let $v2_sppol_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_jordan1e : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k22_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_jordan9 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_finseq_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v3_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_6 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_topreal1 : \iota \Rightarrow o$ be given. Let $v2_topreal1 : \iota \Rightarrow o$ be given. Let $v1_goboard5 : \iota \Rightarrow o$ be given. Let $v2_goboard5 : \iota \Rightarrow o$ be given. Let $v1_sprect_2 : \iota \Rightarrow o$ be given. Let $k1_finseq_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18_pscomp_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \neg (X0 \in X1) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 X2)) \wedge (v1_xboole_0 X2)) \quad (1)$$

Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow (\forall X2. (m2_finseq_1 X2 X0) \Rightarrow (k7_partfun1 X0 (k2_finseq_5 X0 X2 X1) np_1 = X1))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (3)$$

Assume the following.

$$((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Leftrightarrow(m1_finseq_1 X1 X0) \quad (5)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (6)$$

Assume the following.

$$v6_membered k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.\exists X1.m1_subset_1 X1 X0 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0)\wedge(m1_finseq_1 X1 (u1_struct_0 (k15_euclid X0))))\Rightarrow(m1_subset_1 (k3_topreal1 X0 X1) (k1_zfmisc_1 (u1_struct_0 (k15_euclid X0)))) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))\Rightarrow(m1_subset_1 (k22_pscomp_1 X0) (u1_struct_0 (k15_euclid np_2))) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v1_xboole_0 X0)\wedge((v2_compts_1 X0 (k15_euclid np_2))\wedge((\neg v1_sppol_1 X0)\wedge((\neg v2_sppol_1 X0)\wedge(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))))))\wedge(v7_ordinal1 X1))\Rightarrow((\neg v1_xboole_0 (k1_jordan9 X0 X1))\wedge((\neg v3_funct_1 (k1_jordan9 X0 X1))\wedge((v1_finseq_6 (k1_jordan9 X0 X1) (u1_struct_0 (k15_euclid np_2))))\wedge((v1_topreal1 (k1_jordan9 X0 X1))\wedge((v2_topreal1 (k1_jordan9 X0 X1))\wedge((v1_goboard5 (k1_jordan9 X0 X1))\wedge((v2_goboard5 (k1_jordan9 X0 X1))\wedge((v1_sprect_2 (k1_jordan9 X0 X1))\wedge(m2_finseq_1 (k1_jordan9 X0 X1) (u1_struct_0 (k15_euclid np_2)))))))))))) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X0)\wedge((m1_finseq_1 X1 X0)\wedge(m1_subset_1 X2 X0)))\Rightarrow(m2_finseq_1 (k1_finseq_6 X0 X1 X2) X0) \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))\Rightarrow(m1_subset_1 (k18_pscomp_1 X0) (u1_struct_0 (k15_euclid np_2))) \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2_compts_1 X0 (k15_euclid np_2)) \wedge ((\neg v1_sppol_1 \\ & X0) \wedge ((\neg v2_sppol_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ & (k15_euclid np_2)))))) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (k2_jordan1e \\ & X0 X1 = k2_finseq_5 (u1_struct_0 (k15_euclid np_2)) (k1_finseq_6 \\ & (u1_struct_0 (k15_euclid np_2)) (k1_jordan9 X0 X1) (k18_pscomp_1 \\ & (k3_topreal1 np_2 (k1_jordan9 X0 X1)))) (k22_pscomp_1 (k3_topreal1 \\ & np_2 (k1_jordan9 X0 X1)))))) \end{aligned} \tag{14}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))) \Rightarrow ((v1_xboole_0 X0) \Rightarrow (v1_sppol_1 X0)) \tag{15}$$

Assume the following.

$$\forall X0.(v6_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v7_ordinal1 X1)) \tag{16}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v2_compts_1 X0 (k15_euclid np_2)) \wedge ((\neg v1_sppol_1 \\ & X0) \wedge ((\neg v2_sppol_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ & (k15_euclid np_2)))))) \Rightarrow (\forall X1.(m1_subset_1 X1 k5_numbers) \Rightarrow \\ & (k7_partfun1 (u1_struct_0 (k15_euclid np_2)) (k2_jordan1e X0 \\ & X1) np_1 = k22_pscomp_1 (k3_topreal1 np_2 (k1_jordan9 X0 X1)))) \end{aligned}$$