

t32_jordan1d

(TMK8hh9TKvwC68fx6FrePRs5WN3hR6ttwkW)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v2_connsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v2_compts_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_sppol_1 : \iota \Rightarrow o$ be given. Let $v2_sppol_1 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k1_jordan8 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_jordan9 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ 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 $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. ((\neg v1_zfmisc_1 X0) \wedge (m2_finseq_1 X0 (u1_struct_0 (k15_euclid np_2)))) \Rightarrow (k18_pscomp_1 (k3_topreal1 np_2 X0) \in k2_relset_1 (u1_struct_0 (k15_euclid np_2)) X0) \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((v2_connsp_1 \\ & X1 (k15_euclid np_2)) \wedge ((v2_compts_1 X1 (k15_euclid np_2)) \wedge \\ & ((\neg v1_sppol_1 X1) \wedge ((\neg v2_sppol_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 (k15_euclid np_2)))))))))) \Rightarrow (\exists X2.(m1_subset_1 \\ & X2 k5_numbers) \wedge ((r1_xxreal_0 np_1 X2) \wedge ((r1_xxreal_0 X2 (k1_matrix_1 \\ & (k1_jordan8 X1 X0)) \wedge (k18_pscomp_1 (k3_topreal1 np_2 (k1_jordan9 \\ & X1 X0)) = k3_matrix_1 (u1_struct_0 (k15_euclid np_2)) (k1_jordan8 \\ & X1 X0) np_1 X2)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1) \wedge (v5_relat_1 X1 X0)) \Rightarrow (k2_relset_1 X0 X1 = k10_xtuple_0 X1) \quad (5)$$

Assume the following.

$$v6_membered k4_ordinal1 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Rightarrow ((v1_funct_1 X1) \wedge ((v1_finseq_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0) \Rightarrow ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((\neg v1_xboole_0 X0) \wedge ((v2_compts_1 X0 (\\ & k15_euclid np_2)) \wedge ((\neg v1_sppol_1 X0) \wedge ((\neg v2_sppol_1 X0) \wedge (m1_subset_1 \\ & X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))))))) \wedge (v7_ordinal1 \\ & X1)) \Rightarrow ((\neg v1_xboole_0 (k1_jordan9 X0 X1)) \wedge ((\neg v3_funct_1 (k1_jordan9 \\ & X0 X1)) \wedge ((v1_finseq_6 (k1_jordan9 X0 X1) (u1_struct_0 (k15_euclid \\ & np_2)))) \wedge ((v1_topreal1 (k1_jordan9 X0 X1)) \wedge ((v2_topreal1 (k1_jordan9 \\ & X0 X1)) \wedge ((v1_goboard5 (k1_jordan9 X0 X1)) \wedge ((v2_goboard5 (k1_jordan9 \\ & X0 X1)) \wedge ((v1_sprect_2 (k1_jordan9 X0 X1)) \wedge (m2_finseq_1 (k1_jordan9 \\ & X0 X1) (u1_struct_0 (k15_euclid np_2))))))))))))) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))) \Rightarrow ((v1_xboole_0 X0) \Rightarrow (v2_sppol_1 X0)) \quad (10)$$

Assume the following.

$$\forall X0.((v1_zfmisc_1 X0) \wedge ((v1_relat_1 X0) \wedge (v1_funct_1 X0))) \Rightarrow ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v3_funct_1 X0))) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow ((v4_relat_1 X2 X0) \wedge (v5_relat_1 X2 X1)) \quad (12)$$

Assume the following.

$$\forall X0.(v6_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v7_ordinal1 X1)) \quad (13)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((v2_connsp_1 \\ & X1 (k15_euclid np_2)) \wedge ((v2_compts_1 X1 (k15_euclid np_2)) \wedge \\ & ((\neg v1_sppol_1 X1) \wedge ((\neg v2_sppol_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 (k15_euclid np_2)))))))) \Rightarrow (\exists X2.(m1_subset_1 \\ & X2 k5_numbers) \wedge ((r1_xxreal_0 np_1 X2) \wedge ((r1_xxreal_0 X2 (k1_matrix_1 \\ & (k1_jordan8 X1 X0)) \wedge (k3_matrix_1 (u1_struct_0 (k15_euclid np_2)) \\ & (k1_jordan8 X1 X0) np_1 X2 \in k10_xtuple_0 (k1_jordan9 X1 X0)))))) \end{aligned}$$