

t25_jordan1a

(TMWz1nrPFsvWcdBwk99Z5f84ELbtCEdKZQT)

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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 $v3_relat.1 : \iota \Rightarrow o$ be given. Let $v1_matrix.1 : \iota \Rightarrow o$ be given. Let $v2_goboard1 : \iota \Rightarrow o$ be given. Let $v3_goboard1 : \iota \Rightarrow o$ be given. Let $v4_goboard1 : \iota \Rightarrow o$ be given. Let $v5_goboard1 : \iota \Rightarrow o$ be given. Let $m2_finseq.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq.2 : \iota \Rightarrow \iota$ be given. Let $u1_struct.0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $r1_xxreal.0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq.1 : \iota \Rightarrow \iota$ be given. Let $k1_matrix.1 : \iota \Rightarrow \iota$ be given. Let $v2_connsp.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_goboard5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tops.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $v1_convex.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_xxreal.0 : \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $m1_finseq.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal.1 : \iota$ be given. Let $v3_ordinal.1 : \iota \Rightarrow o$ be given. Let $v7_ordinal.1 : \iota \Rightarrow o$ be given. Let $v13_algstr.0 : \iota \Rightarrow o$ be given. Let $v2_rlvect.1 : \iota \Rightarrow o$ be given. Let $v3_rlvect.1 : \iota \Rightarrow o$ be given. Let $v4_rlvect.1 : \iota \Rightarrow o$ be given. Let $v5_rlvect.1 : \iota \Rightarrow o$ be given. Let $v6_rlvect.1 : \iota \Rightarrow o$ be given. Let $v7_rlvect.1 : \iota \Rightarrow o$ be given. Let $v8_rlvect.1 : \iota \Rightarrow o$ be given. Let $v5_rltopsp1 : \iota \Rightarrow o$ be given. Let $l1_rltopsp1 : \iota \Rightarrow o$ be given. Let $l1_rlvect.1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m1_subset.1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset.1 \\
 & X1 k5_numbers) \Rightarrow (\forall X2.((\neg v3_relat.1 X2) \wedge ((v1_matrix.1 \\
 & X2) \wedge ((v2_goboard1 X2) \wedge ((v3_goboard1 X2) \wedge ((v4_goboard1 X2) \wedge \\
 & ((v5_goboard1 X2) \wedge (m2_finseq.1 X2 (k3_finseq.2 (u1_struct.0 \\
 & (k15_euclid np_2)))))))))) \Rightarrow (((r1_xxreal.0 X0 (k3_finseq.1 \\
 & X2)) \wedge (r1_xxreal.0 X1 (k1_matrix.1 X2))) \Rightarrow (k3_goboard5 X2 X0 X1 = \\
 & k2_pre_topc (k15_euclid np_2) (k1_tops.1 (k15_euclid np_2) \\
 & (k3_goboard5 X2 X0 X1))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\
 & (m1_subset.1 X1 (k1_zfmisc.1 (u1_struct.0 X0))) \Rightarrow ((v2_connsp.1 \\
 & X1 X0) \Rightarrow (v2_connsp.1 (k2_pre_topc X0 X1) X0)))
 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k1_numbers k5_numbers) \Rightarrow (\forall X2. ((\neg v3_relat_1 \\ & X2) \wedge ((v1_matrix_1 X2) \wedge ((v2_goboard1 X2) \wedge ((v3_goboard1 X2) \wedge \\ & ((v4_goboard1 X2) \wedge ((v5_goboard1 X2) \wedge (m2_finseq_1 X2 (k3_finseq_2 \\ & (u1_struct_0 (k15_euclid np_2)))))))))) \Rightarrow (((r1_xxreal_0 X0 \\ & (k3_finseq_1 X2)) \wedge (r1_xxreal_0 X1 (k1_matrix_1 X2))) \Rightarrow (v1_convex1 \\ & (k1_tops_1 (k15_euclid np_2) (k3_goboard5 X2 X0 X1)) (k15_euclid \\ & np_2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (6)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1 X0) \Rightarrow ((v2_pre_topc (k15_euclid X0)) \wedge \\ & ((v13_algstr_0 (k15_euclid X0)) \wedge ((v2_rlvect_1 (k15_euclid X0)) \wedge \\ & ((v3_rlvect_1 (k15_euclid X0)) \wedge ((v4_rlvect_1 (k15_euclid X0)) \wedge \\ & ((v5_rlvect_1 (k15_euclid X0)) \wedge ((v6_rlvect_1 (k15_euclid X0)) \wedge \\ & ((v7_rlvect_1 (k15_euclid X0)) \wedge ((v8_rlvect_1 (k15_euclid X0)) \wedge \\ & (v5_rltopsp1 (k15_euclid X0)))))))))) \end{aligned} \quad (9)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (10)$$

Assume the following.

$$\forall X0. (l1_rltopsp1 X0) \Rightarrow ((l1_rlvect_1 X0) \wedge (l1_pre_topc X0)) \quad (11)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (12)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((v1_matrix_1 \ X0) \wedge (m1_finseq_1 \\ & \quad X0 \ (k3_finseq_2 \ (u1_struct_0 \ (k15_euclid \ np_2)))))) \wedge ((v7_ordinal1 \\ & \quad X1) \wedge (v7_ordinal1 \ X2)) \Rightarrow (m1_subset_1 \ (k3_goboard5 \ X0 \ X1 \ X2) \ (k1_zfmisc_1 \\ & \quad (u1_struct_0 \ (k15_euclid \ np_2)))) \end{aligned} \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((l1_pre_topc \ X0) \wedge (m1_subset_1 \ X1 \ (k1_zfmisc_1 \\ & \quad (u1_struct_0 \ X0)))) \Rightarrow (m1_subset_1 \ (k1_tops_1 \ X0 \ X1) \ (k1_zfmisc_1 \\ & \quad (u1_struct_0 \ X0))) \end{aligned} \quad (14)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow ((v5_rltopsp1 \ (k15_euclid \ X0)) \wedge (l1_rltopsp1 \ (k15_euclid \ X0))) \quad (15)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (16)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \\ & \quad (u1_struct_0 \ (k15_euclid \ X0)))) \Rightarrow ((v1_convex1 \ X1 \ (k15_euclid \\ & \quad X0)) \Rightarrow (v2_connsp_1 \ X1 \ (k15_euclid \ X0)))) \end{aligned} \quad (17)$$

Theorem 1

$$\begin{aligned} & \forall X0. (m2_subset_1 \ X0 \ k1_numbers \ k5_numbers) \Rightarrow (\forall X1. \\ & \quad (m2_subset_1 \ X1 \ k1_numbers \ k5_numbers) \Rightarrow (\forall X2. ((\neg v3_relat_1 \\ & \quad X2) \wedge ((v1_matrix_1 \ X2) \wedge ((v2_goboard1 \ X2) \wedge ((v3_goboard1 \ X2) \wedge \\ & \quad ((v4_goboard1 \ X2) \wedge ((v5_goboard1 \ X2) \wedge (m2_finseq_1 \ X2 \ (k3_finseq_2 \\ & \quad (u1_struct_0 \ (k15_euclid \ np_2)))))))))) \Rightarrow (((r1_xxreal_0 \ X0 \\ & \quad (k3_finseq_1 \ X2)) \wedge (r1_xxreal_0 \ X1 \ (k1_matrix_1 \ X2))) \Rightarrow (v2_connsp_1 \\ & \quad (k3_goboard5 \ X2 \ X0 \ X1) \ (k15_euclid \ np_2)))))) \end{aligned}$$