

t33_jordan14

(TMaNX1rotp8ZdYb85fdtENhofModDE8fSeb)

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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 $r1_goboard1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_topreal1 : \iota \Rightarrow o$ 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 $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_goboard5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $l1_rltopsp1 : \iota \Rightarrow o$ be given. Let $l1_rlvect_1 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v5_rltopsp1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow ((r1_xboole_0 X1 X2) \Leftrightarrow (r1_tarski \\ & X1 (k3_subset_1 X0 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. (m1_subset_1 \\ & X1 k5_numbers) \Rightarrow (\forall X2. ((\neg v3_relat_1 X2) \wedge ((v1_matrix_1 \\ & X2) \wedge ((v2_goboard1 X2) \wedge ((v3_goboard1 X2) \wedge ((v4_goboard1 X2) \wedge \\ & ((v5_goboard1 X2) \wedge (m2_finseq_1 X2 (k3_finseq_2 (u1_struct_0 \\ & (k15_euclid np_2)))))))))) \Rightarrow (\forall X3. (m2_finseq_1 X3 (u1_struct_0 \\ & (k15_euclid np_2))) \Rightarrow (((r1_goboard1 (u1_struct_0 (k15_euclid \\ & np_2)) X3 X2) \wedge ((v1_topreal1 X3) \wedge ((r1_xxreal_0 X0 (k3_finseq_1 \\ & X2)) \wedge (r1_xxreal_0 X1 (k1_matrix_1 X2)))))) \Rightarrow (r1_xboole_0 (k1_tops_1 \\ & (k15_euclid np_2) (k3_goboard5 X2 X0 X1)) (k3_topreal1 np_2 X3)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \text{ np_2}) \wedge (m2_subset_1 \text{ np_2 } k1_numbers \text{ k5_numbers})) \wedge \\ & ((m1_subset_1 \text{ np_2 } k5_numbers) \wedge (m1_subset_1 \text{ np_2 } k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (4)$$

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.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (7)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (8)$$

Assume the following.

$$\forall X0. (l1_rltopsp1 X0) \Rightarrow ((l1_rlvect_1 X0) \wedge (l1_pre_topc X0)) \quad (9)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v7_ordinal1 X0) \wedge (m1_finseq_1 X1 (u1_struct_0 \\ & (k15_euclid X0)))) \Rightarrow (m1_subset_1 (k3_topreal1 X0 X1) (k1_zfmisc_1 \\ & (u1_struct_0 (k15_euclid X0)))) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((v1_matrix_1 X0) \wedge (m1_finseq_1 \\ & X0 (k3_finseq_2 (u1_struct_0 (k15_euclid \text{ np_2})))))) \wedge ((v7_ordinal1 \\ & X1) \wedge (v7_ordinal1 X2))) \Rightarrow (m1_subset_1 (k3_goboard5 X0 X1 X2) (k1_zfmisc_1 \\ & (u1_struct_0 (k15_euclid \text{ np_2})))) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((l1_pre_topc X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0)))) \Rightarrow (m1_subset_1 (k1_tops_1 X0 X1) (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \end{aligned} \quad (13)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow ((v5_rltopsp1\ (k15_euclid\ X0)) \wedge (l1_rltopsp1\ (k15_euclid\ X0))) \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (15)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v3_relat_1\ X0) \wedge ((v1_matrix_1\ X0) \wedge ((v2_goboard1 \\ & X0) \wedge ((v3_goboard1\ X0) \wedge ((v4_goboard1\ X0) \wedge ((v5_goboard1\ X0) \wedge \\ & (m2_finseq_1\ X0\ (k3_finseq_2\ (u1_struct_0\ (k15_euclid\ np_2)))))))))) \Rightarrow \\ & (\forall X1.(m2_finseq_1\ X1\ (u1_struct_0\ (k15_euclid\ np_2))) \Rightarrow \\ & (((r1_goboard1\ (u1_struct_0\ (k15_euclid\ np_2))\ X1\ X0) \wedge (v1_topreal1 \\ & X1)) \Rightarrow (\forall X2.(m2_subset_1\ X2\ k1_numbers\ k5_numbers) \Rightarrow (\forall X3. \\ & (m2_subset_1\ X3\ k1_numbers\ k5_numbers) \Rightarrow (((r1_xxreal_0\ X2\ (k3_finseq_1 \\ & X0)) \wedge (r1_xxreal_0\ X3\ (k1_matrix_1\ X0))) \Rightarrow (r1_tarski\ (k1_tops_1 \\ & (k15_euclid\ np_2)\ (k3_goboard5\ X0\ X2\ X3))\ (k3_subset_1\ (u1_struct_0 \\ & (k15_euclid\ np_2))\ (k3_topreal1\ np_2\ X1))))))) \end{aligned}$$