

t27_jordan15

(TMW29FSQbhgkAr7xfVGf19eXTAXVQVqCS61)

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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 $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_jordan8 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_jordan1e : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_jordan1e : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((v2_connsp_1 \\
 & \quad X1 (k15_euclid np_2)) \wedge ((v2_compts_1 X1 (k15_euclid np_2)) \wedge \\
 & \quad ((\neg v1_sppol_1 X1) \wedge ((\neg v2_sppol_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
 & \quad \quad (u1_struct_0 (k15_euclid np_2)))))))))) \Rightarrow (\forall X2.(m1_subset_1 \\
 & \quad X2 k5_numbers) \Rightarrow (\forall X3.(m1_subset_1 X3 k5_numbers) \Rightarrow (\forall X4. \\
 & (m1_subset_1 X4 k5_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 X2 np_1) \wedge ((\neg r1_xxreal_0 \\
 & \quad (k3_finseq_1 (k1_jordan8 X1 X0)) X2) \wedge ((r1_xxreal_0 np_1 X3) \wedge \\
 & \quad ((r1_xxreal_0 X4 (k1_matrix_1 (k1_jordan8 X1 X0))) \wedge (k3_matrix_1 \\
 & \quad (u1_struct_0 (k15_euclid np_2)) (k1_jordan8 X1 X0) X2 X4 \in k3_topreal1 \\
 & \quad np_2 (k1_jordan1e X1 X0)) \wedge ((k3_matrix_1 (u1_struct_0 (k15_euclid \\
 & \quad np_2)) (k1_jordan8 X1 X0) X2 X3 \in k3_topreal1 np_2 (k2_jordan1e \\
 & \quad X1 X0)) \wedge (X3 = X4))))))))))
 \end{aligned}
 \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((v2_connsp_1 \\ & X1 (k15_euclid np_2)) \wedge (v2_compts_1 X1 (k15_euclid np_2)) \wedge \\ & ((\neg v1_sppol_1 X1) \wedge ((\neg v2_sppol_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 (k15_euclid np_2)))))))) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 k5_numbers) \Rightarrow (\forall X3.(m1_subset_1 X3 k5_numbers) \Rightarrow (\forall X4. \\ & (m1_subset_1 X4 k5_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 X3 np_1) \wedge ((\neg r1_xxreal_0 \\ & (k3_finseq_1 (k1_jordan8 X1 X0)) X4) \wedge ((r1_xxreal_0 np_1 X2) \wedge \\ & ((r1_xxreal_0 X2 (k1_matrix_1 (k1_jordan8 X1 X0))) \wedge ((k3_matrix_1 \\ & (u1_struct_0 (k15_euclid np_2)) (k1_jordan8 X1 X0)) X4 X2 \in k3_topreal1 \\ & np_2 (k1_jordan1e X1 X0)) \wedge ((k3_matrix_1 (u1_struct_0 (k15_euclid \\ & np_2)) (k1_jordan8 X1 X0)) X3 X2 \in k3_topreal1 np_2 (k2_jordan1e \\ & X1 X0)) \wedge (X3 = X4)))))))))) \end{aligned}$$