

t4_jordan19
(TMUZjuT23J6fjaaLZfybNN6Jc87jcx6md4V)

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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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ 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 $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_jordan9 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_jordan6 : \iota \Rightarrow \iota$ be given. Let $k1_jordan1e : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((v2_connsp_1 X0 (k15_euclid np_2)) \wedge ((v2_compts_1 \\
& \quad X0 (k15_euclid np_2)) \wedge ((\neg v1_sppol_1 X0) \wedge ((\neg v2_sppol_1 X0) \wedge \\
& \quad (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))))) \Rightarrow \\
& (\forall X1. (m1_subset_1 X1 k5_numbers) \Rightarrow ((\neg r1_xxreal_0 X1 k6_numbers) \Rightarrow \\
& \quad (k3_topreal1 np_2 (k1_jordan1e X0 X1) = k8_jordan6 (k3_topreal1 \\
& \quad \quad np_2 (k1_jordan9 X0 X1))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((v2_connsp_1 \\
& \quad X1 (k15_euclid np_2)) \wedge ((v2_compts_1 X1 (k15_euclid np_2)) \wedge \\
& \quad ((\neg v1_sppol_1 X1) \wedge ((\neg v2_sppol_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
& \quad \quad (u1_struct_0 (k15_euclid np_2))))))) \Rightarrow (\forall X2.(m1_subset_1 \\
& X2 k5_numbers) \Rightarrow (\forall X3.(m1_subset_1 X3 k5_numbers) \Rightarrow (\neg(r1_xxreal_0 \\
& \quad np_1 X2) \wedge ((r1_xxreal_0 X2 (k3_finseq_1 (k1_jordan8 X1 X0))) \wedge \\
& \quad ((r1_xxreal_0 np_1 X3) \wedge ((r1_xxreal_0 X3 (k1_matrix_1 (k1_jordan8 \\
& X1 X0))) \wedge ((k3_matrix_1 (u1_struct_0 (k15_euclid np_2)) (k1_jordan8 \\
& X1 X0) X2 X3 \in k3_topreal1 np_2 (k1_jordan9 X1 X0)) \wedge (r2_subset_1 \\
& (k1_rltopsp1 (k15_euclid np_2) (k3_matrix_1 (u1_struct_0 (k15_euclid \\
& np_2)) (k1_jordan8 X1 X0) X2 (k1_matrix_1 (k1_jordan8 X1 X0))) \\
& \quad (k3_matrix_1 (u1_struct_0 (k15_euclid np_2)) (k1_jordan8 X1 \\
& X0) X2 X3)) (k3_topreal1 np_2 (k1_jordan1e X1 X0))))))))))
\end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v2_connsp_1 X0 (k15_euclid np_2)) \wedge ((v2_compts_1 \\
& \quad X0 (k15_euclid np_2)) \wedge ((\neg v1_sppol_1 X0) \wedge ((\neg v2_sppol_1 X0) \wedge \\
& \quad (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))))) \Rightarrow \\
& (\forall X1.(m1_subset_1 X1 k5_numbers) \Rightarrow ((\neg r1_xxreal_0 X1 k6_numbers) \Rightarrow \\
& \quad (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3.(m1_subset_1 \\
& X3 k5_numbers) \Rightarrow (\neg(r1_xxreal_0 np_1 X2) \wedge ((r1_xxreal_0 X2 (k3_finseq_1 \\
& \quad (k1_jordan8 X0 X1))) \wedge ((r1_xxreal_0 np_1 X3) \wedge ((r1_xxreal_0 X3 \\
& \quad (k1_matrix_1 (k1_jordan8 X0 X1))) \wedge ((k3_matrix_1 (u1_struct_0 \\
& (k15_euclid np_2)) (k1_jordan8 X0 X1) X2 X3 \in k3_topreal1 np_2 \\
& (k1_jordan9 X0 X1)) \wedge (r2_subset_1 (k1_rltopsp1 (k15_euclid np_2) \\
& \quad (k3_matrix_1 (u1_struct_0 (k15_euclid np_2)) (k1_jordan8 X0 \\
& X1) X2 (k1_matrix_1 (k1_jordan8 X0 X1))) (k3_matrix_1 (u1_struct_0 \\
& (k15_euclid np_2)) (k1_jordan8 X0 X1) X2 X3)) (k8_jordan6 (k3_topreal1 \\
& \quad np_2 (k1_jordan9 X0 X1))))))))))
\end{aligned}$$