

t26_jordan1h (TM-
bVv7R1LsnTRtL96EVNVnYuZVYLCJg4EEH)

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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 $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\
& (m2_subset_1 X1 k1_numbers k5_numbers) \Rightarrow (\forall X2.(m2_subset_1 \\
& X2 k1_numbers k5_numbers) \Rightarrow (\forall X3.(m2_subset_1 X3 k1_numbers \\
& k5_numbers) \Rightarrow (\forall X4.\forall X5.((\neg v3_relat_1 X5) \wedge ((v1_matrix_1 \\
& X5) \wedge ((v2_goboard1 X5) \wedge ((v3_goboard1 X5) \wedge ((v4_goboard1 X5) \wedge \\
& ((v5_goboard1 X5) \wedge (m2_finseq_1 X5 (k3_finseq_2 (u1_struct_0 \\
& (k15_euclid np_2)))))))))) \Rightarrow (((X4 = k3_matrix_1 (u1_struct_0 \\
& (k15_euclid np_2)) X5 X0 X1) \wedge ((X4 = k3_matrix_1 (u1_struct_0 (\\
& k15_euclid np_2)) X5 X2 X3) \wedge ((k4_tarski X0 X1 \in k2_matrix_1 X5) \wedge \\
& (k4_tarski X2 X3 \in k2_matrix_1 X5)))))) \Rightarrow ((X0 = X2) \wedge (X1 = X3))))))
\end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\
& (m2_subset_1 X1 k1_numbers k5_numbers) \Rightarrow (\forall X2.(m2_subset_1 \\
& X2 k1_numbers k5_numbers) \Rightarrow (\forall X3.(m2_subset_1 X3 k1_numbers \\
& k5_numbers) \Rightarrow (\forall X4.((\neg v3_relat_1 X4) \wedge ((v1_matrix_1 X4) \wedge \\
& ((v2_goboard1 X4) \wedge ((v3_goboard1 X4) \wedge ((v4_goboard1 X4) \wedge ((v5_goboard1 \\
& X4) \wedge (m2_finseq_1 X4 (k3_finseq_2 (u1_struct_0 (k15_euclid np_2)))))))))) \Rightarrow \\
& (((k4_tarski X0 X1 \in k2_matrix_1 X4) \wedge ((k4_tarski X2 X3 \in k2_matrix_1 \\
& X4) \wedge (k3_matrix_1 (u1_struct_0 (k15_euclid np_2)) X4 X0 X1 = k3_matrix_1 \\
& (u1_struct_0 (k15_euclid np_2)) X4 X2 X3))) \Rightarrow ((X0 = X2) \wedge (X1 = X3))))))
\end{aligned}$$