

t3_jordan1g

(TMQRuZSdM7Lqx4X5oPnHhysC12horFphFoN)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $r1_goboard1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_finseq_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k4_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_rfinseq : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\
& (\forall X2. (m2_finseq_1 X2 X0) \Rightarrow (\neg (X1 \in k10_xtuple_0 X2) \wedge (\forall X3. \\
& (m1_subset_1 X3 k5_numbers) \Rightarrow (\neg (k2_nat_1 X3 np_1 = k4_finseq_4 \\
& X2 X1) \wedge (k2_finseq_5 X0 X2 X1 = k2_rfinseq X0 X3 X2))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. (\neg v1_xboole_0 \\
& X1) \Rightarrow (\forall X2. (m2_finseq_1 X2 X1) \Rightarrow (\forall X3. ((v1_matrix_1 \\
& X3) \wedge (m2_finseq_1 X3 (k3_finseq_2 X1))) \Rightarrow ((r1_goboard1 X1 X2 X3) \Rightarrow \\
& (r1_goboard1 X1 (k2_rfinseq X1 X0 X2) X3))))))
\end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned}
& \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m2_finseq_1 X1 X0) \Rightarrow \\
& (\forall X2. ((v1_matrix_1 X2) \wedge (m2_finseq_1 X2 (k3_finseq_2 X0))) \Rightarrow \\
& (\forall X3. (m1_subset_1 X3 X0) \Rightarrow (((X3 \in k10_xtuple_0 X1) \wedge (r1_goboard1 \\
& X0 X1 X2)) \Rightarrow (r1_goboard1 X0 (k2_finseq_5 X0 X1 X3) X2))))))
\end{aligned}$$