

t4_jordan9 (TMHm-
LeFs2LmcJbr88nmCsVukzEaNsBWnu3S)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_finseq_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_5 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ & ((k4_finseq_1 X0 = k4_finseq_1 (k3_finseq_5 X0)) \wedge (k10_xtuple_0 \\ & \quad X0 = k10_xtuple_0 (k3_finseq_5 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(\neg v1_xboole_0 \\ & \quad X1) \Rightarrow (\forall X2.(m2_finseq_1 X2 X1) \Rightarrow (\neg (X0 \in k4_finseq_1 X2) \wedge (\\ & \quad \forall X3.(m1_subset_1 X3 k5_numbers) \Rightarrow (\neg (X3 \in k4_finseq_1 (k4_finseq_5 \\ & \quad X1 X2)) \wedge ((k2_nat_1 X0 X3 = k2_nat_1 (k3_finseq_1 X2) np_1) \wedge (k7_partfun1 \\ & \quad X1 X2 X0 = k7_partfun1 X1 (k4_finseq_5 X1 X2) X3))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1.(m1_finseq_1 X1 X0) \Rightarrow (k4_finseq_5 X0 X1 = k3_finseq_5 X1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1.(m1_finseq_1 X1 X0) \Rightarrow (k4_finseq_5 X0 (k4_finseq_5 X0 X1) = X1) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Rightarrow((v1_funct_1 X1)\wedge((v1_finseq_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0)\Rightarrow((v1_relat_1 X1)\wedge((v1_funct_1 X1)\wedge(v1_finseq_1 X1))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0)\Rightarrow(m2_finseq_1 (k4_finseq_5 X0 X1) X0) \quad (8)$$

Assume the following.

$$\begin{aligned} &\forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge(v1_finseq_1 X0)))\Rightarrow \\ &(\forall X1.((v1_relat_1 X1)\wedge((v1_funct_1 X1)\wedge(v1_finseq_1 X1))))\Rightarrow((X1 = k3_finseq_5 X0)\Leftrightarrow((k3_finseq_1 X1 = k3_finseq_1 X0)\wedge \\ &(\forall X2.(v7_ordinal1 X2)\Rightarrow((X2 \in k4_finseq_1 X1)\Rightarrow(k1_funct_1 X1 X2 = k1_funct_1 X0 (k2_xcmplx_0 (k6_xcmplx_0 (k3_finseq_1 X0) X2) np_1)))))) \quad (9) \end{aligned}$$

Theorem 1

$$\begin{aligned} &\forall X0.(m1_subset_1 X0 k5_numbers)\Rightarrow(\forall X1.(\neg v1_xboole_0 X1)\Rightarrow(\forall X2.(m2_finseq_1 X2 X1)\Rightarrow(\neg(X0 \in k4_finseq_1 (k4_finseq_5 X1 X2))\wedge(\forall X3.(m1_subset_1 X3 k5_numbers)\Rightarrow(\neg(X3 \in k4_finseq_1 X2)\wedge((k2_nat_1 X0 X3 = k2_nat_1 (k3_finseq_1 X2) np_1)\wedge(k7_partfun1 X1 (k4_finseq_5 X1 X2) X0 = k7_partfun1 X1 X2 X3)))))) \end{aligned}$$