

t35_jordan1a
(TMZcedcfrXU9tThicCNb8tZmTUTnapcVnab)

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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 $v1_xboole_0 : \iota \Rightarrow o$ 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 $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k1_jordan8 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ 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. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k4_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k5_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k7_pscomp_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\
& (m2_subset_1 X1 k1_numbers k5_numbers) \Rightarrow (\forall X2.(m2_subset_1 \\
& X2 k1_numbers k5_numbers) \Rightarrow (\forall X3.((\neg v1_xboole_0 X3) \wedge (m1_subset_1 \\
& X3 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow ((r1_xxreal_0 \\
& X0 X1) \Rightarrow ((r1_xxreal_0 X2 np_1) \vee ((r1_xxreal_0 (k3_finseq_1 (k1_jordan8 \\
& X3 X0)) (k2_nat_1 X2 np_1)) \vee ((\neg r1_xxreal_0 (k7_real_1 (k8_real_1 \\
& (k13_newton np_2 (k7_nat_d X1 X0)) (k9_real_1 X2 np_1)) np_2) \\
& np_1) \wedge (r1_xxreal_0 (k7_real_1 (k8_real_1 (k13_newton np_2 \\
& (k7_nat_d X1 X0)) (k9_real_1 X2 np_1)) np_2) (k3_finseq_1 (k1_jordan8 \\
& X3 X1))))))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge((\neg v1_xboole_0 X1)\wedge (m1_subset_1 X1 (k1_zfmisc_1 X0))))\Rightarrow(\forall X2.(m2_subset_1 X2 X0 X1)\Leftrightarrow(m1_subset_1 X2 X1)) \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1)\wedge(v3_ordinal1 k4_ordinal1) \quad (4)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (5)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))\wedge(v7_ordinal1 X1))\Rightarrow((v1_matrix_1 (k1_jordan8 X0 X1))\wedge(m2_finseq_1 (k1_jordan8 X0 X1) (k3_finseq_2 (u1_struct_0 (k15_euclid np_2)))))) \quad (7)$$

Assume the following.

$$\begin{aligned} &\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))\Rightarrow(\forall X1.(v7_ordinal1 X1)\Rightarrow(\forall X2.((v1_matrix_1 X2)\wedge(m2_finseq_1 X2 (k3_finseq_2 (u1_struct_0 (k15_euclid np_2))))))\Rightarrow \\ &((X2 = k1_jordan8 X0 X1)\Leftrightarrow((k3_finseq_1 X2 = k1_nat_1 (k2_newton np_2 X1) np_3)\wedge((k3_finseq_1 X2 = k1_matrix_1 X2)\wedge(\forall X3. \\ &(v7_ordinal1 X3)\Rightarrow(\forall X4.(v7_ordinal1 X4)\Rightarrow((k4_tarski X3 X4 \in k2_matrix_1 X2)\Rightarrow(k3_matrix_1 (u1_struct_0 (k15_euclid np_2)) \\ &X2 X3 X4 = k19_euclid (k7_real_1 (k6_pscomp_1 X0) (k4_real_1 (k13_complex1 (k9_real_1 (k8_pscomp_1 X0) (k6_pscomp_1 X0)) (k2_newton np_2 X1)) (k5_real_1 X3 np_2)))) (k7_real_1 (k9_pscomp_1 X0) (k4_real_1 (k13_complex1 (k9_real_1 (k7_pscomp_1 X0) (k9_pscomp_1 X0)) (k2_newton np_2 X1)) (k5_real_1 X4 np_2)))))))))) \quad (8) \end{aligned}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \quad (9)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k1_numbers k5_numbers) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 k1_numbers k5_numbers) \Rightarrow (\forall X3.((\neg v1_xboole_0 X3) \wedge (m1_subset_1 \\ & X3 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow ((r1_xxreal_0 \\ X0 X1) \Rightarrow ((r1_xxreal_0 X2 np_1) \vee ((r1_xxreal_0 (k1_matrix_1 (k1_jordan8 \\ X3 X0)) (k2_nat_1 X2 np_1)) \vee ((\neg r1_xxreal_0 (k7_real_1 (k8_real_1 \\ (k13_newton np_2 (k7_nat_d X1 X0)) (k9_real_1 X2 np_1)) np_2) \\ np_1) \wedge (r1_xxreal_0 (k7_real_1 (k8_real_1 (k13_newton np_2 \\ (k7_nat_d X1 X0)) (k9_real_1 X2 np_1)) np_2) (k1_matrix_1 (k1_jordan8 \\ X3 X1)))))))))) \end{aligned}$$