

t6_jordan11

(TMLJ8tnh3jKsFXP1VT5Y1KGSbwe6JNppT7F)

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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 $v1_topreal2 : \iota \Rightarrow o$ 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 $r1_jordan1h : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_goboard5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_jordan8 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_jordan1h : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k3_jordan11 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_jordan11 : \iota \Rightarrow \iota$ be given. Let $k2_jordan11 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & ((v1_topreal2 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & (k15_euclid np_2)))))) \Rightarrow ((r1_jordan1h X1 X0) \Rightarrow (r1_xxreal_0 (k3_jordan11 \\ & X1 X0) (k2_nat_1 (k4_nat_1 (k13_newton np_2 (k7_nat_d X0 (k1_jordan11 \\ & X1))) (k7_nat_d (k2_jordan11 X1) np_2)) np_2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X0) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \tag{3}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{4}$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1_xboole_0 \ X0) \wedge ((\neg v1_xboole_0 \ X1) \wedge \\ (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ X2 \ X0 \ X1) \Rightarrow (m1_subset_1 \ X2 \ X0)) \end{aligned} \quad (6)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (((v1_topreal2 \ X0) \wedge (m1_subset_1 \ X0 \ (k1_zfmisc_1 \\ (u1_struct_0 \ (k15_euclid \ np_2)))))) \wedge (m1_subset_1 \ X1 \ k5_numbers)) \Rightarrow \\ (m2_subset_1 \ (k3_jordan11 \ X0 \ X1) \ k1_numbers \ k5_numbers) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_topreal2 \ X0) \wedge (m1_subset_1 \ X0 \ (k1_zfmisc_1 \ (u1_struct_0 \\ (k15_euclid \ np_2)))))) \Rightarrow (\forall X1. (m2_subset_1 \ X1 \ k1_numbers \\ k5_numbers) \Rightarrow ((r1_jordan1h \ X0 \ X1) \Rightarrow (\forall X2. (m2_subset_1 \ X2 \\ k1_numbers \ k5_numbers) \Rightarrow ((X2 = k3_jordan11 \ X0 \ X1) \Leftrightarrow ((r1_xxreal_0 \\ X2 \ (k1_matrix_1 \ (k1_jordan8 \ X0 \ X1))) \wedge ((\forall X3. (m2_subset_1 \\ X3 \ k1_numbers \ k5_numbers) \Rightarrow ((r1_xxreal_0 \ X2 \ X3) \wedge (r1_xxreal_0 \\ X3 \ (k2_nat_1 \ (k4_nat_1 \ (k13_newton \ np_2 \ (k7_nat_d \ X1 \ (k1_jordan11 \\ X0))) \ (k7_nat_d \ (k2_jordan11 \ X0) \ np_2)) \ np_2)))) \Rightarrow (r1_tarski \\ (k3_goboard5 \ (k1_jordan8 \ X0 \ X1) \ (k7_nat_d \ (k3_jordan1h \ X0 \ X1) \ np_1) \\ X3) \ (k1_jordan2c \ np_2 \ X0)))))) \wedge (\forall X3. (m2_subset_1 \ X3 \ k1_numbers \\ k5_numbers) \Rightarrow (((r1_xxreal_0 \ X3 \ (k1_matrix_1 \ (k1_jordan8 \ X0 \ X1))) \wedge \\ (\forall X4. (m2_subset_1 \ X4 \ k1_numbers \ k5_numbers) \Rightarrow (((r1_xxreal_0 \\ X3 \ X4) \wedge (r1_xxreal_0 \ X4 \ (k2_nat_1 \ (k4_nat_1 \ (k13_newton \ np_2 \ (\\ k7_nat_d \ X1 \ (k1_jordan11 \ X0))) \ (k7_nat_d \ (k2_jordan11 \ X0) \ np_2)) \\ np_2)))) \Rightarrow (r1_tarski \ (k3_goboard5 \ (k1_jordan8 \ X0 \ X1) \ (k7_nat_d \\ (k3_jordan1h \ X0 \ X1) \ np_1) \ X4) \ (k1_jordan2c \ np_2 \ X0)))))) \Rightarrow (r1_xxreal_0 \\ X2 \ X3)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0. (v1_xreal_0 \ X0) \Rightarrow (v1_xxreal_0 \ X0) \quad (10)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (v1_xreal_0 \ X0) \quad (11)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \\ X0)) \Rightarrow (v1_xboole_0 \ X1)) \quad (12)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & ((v1_topreal2 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & (k15_euclid np_2)))))) \Rightarrow ((r1_jordan1h X1 X0) \Rightarrow (r1_tarski (k3_goboard5 \\ & (k1_jordan8 X1 X0) (k7_nat_d (k3_jordan1h X1 X0) np_1) (k3_jordan11 \\ & X1 X0) (k1_jordan2c np_2 X1)))) \end{aligned}$$