

t34_gobrd14

(TMTL8A9UQW5Jaw3LSwAKj4A1m9z5BdB6EAY)

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Let $v3_funct.1 : \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $v1_finseq.6 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_topreal1 : \iota \Rightarrow o$ be given. Let $v2_topreal1 : \iota \Rightarrow o$ be given. Let $v1_goboard5 : \iota \Rightarrow o$ be given. Let $v2_goboard5 : \iota \Rightarrow o$ be given. Let $v1_sprect.2 : \iota \Rightarrow o$ be given. Let $m2_finseq.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_goboard9 : \iota \Rightarrow \iota$ be given. Let $v9_rltopsp1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_xxreal.0 : \iota \Rightarrow o$ be given. 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 $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $r3_connsp.1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_subset.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tops.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_goboard5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v3_funct.1 X0) \wedge ((\neg v1_xboole.0 X0) \wedge ((v1_finseq.6 \\ & X0 (u1_struct.0 (k15_euclid np_2))) \wedge ((v1_topreal1 X0) \wedge ((v2_topreal1 \\ & X0) \wedge ((v1_goboard5 X0) \wedge ((v2_goboard5 X0) \wedge ((v1_sprect.2 X0) \wedge \\ & (m2_finseq.1 X0 (u1_struct.0 (k15_euclid np_2)))))))))) \Rightarrow (\\ & \neg v9_rltopsp1 (k2_goboard9 X0) (k15_euclid np_2)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal.0 np_2) \wedge (m2_subset.1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset.1 np_2 k5_numbers) \wedge (m1_subset.1 np_2 k1_numbers)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq.1 X1 X0) \Leftrightarrow (m1_finseq.1 X1 X0) \tag{3}$$

Assume the following.

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

Assume the following.

$$v6_membered\ k4_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(m1_finseq_1\ X1\ (u1_struct_0\ (k15_euclid\ X0))))\Rightarrow(m1_subset_1\ (k3_topreal1\ X0\ X1)\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ X0)))) \quad (6)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0\ X0)\wedge((\neg v3_funct_1\ X0)\wedge((v1_finseq_6\ X0\ (u1_struct_0\ (k15_euclid\ np_2))))\wedge((v1_topreal1\ X0)\wedge((v2_topreal1\ X0)\wedge((v1_goboard5\ X0)\wedge((v2_goboard5\ X0)\wedge(m1_finseq_1\ X0\ (u1_struct_0\ (k15_euclid\ np_2))))))))))\Rightarrow(m1_subset_1\ (k2_goboard9\ X0)\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2)))) \quad (7)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ X0))))\Rightarrow(\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ X0))))\Rightarrow((r2_jordan2c\ X0\ X1\ X2)\Leftrightarrow((r3_connsp_1\ (k15_euclid\ X0)\ (k3_subset_1\ (u1_struct_0\ (k15_euclid\ X0))\ X1)\ X2)\wedge(\neg v9_rltopsp1\ X2\ (k15_euclid\ X0)))))) \quad (8)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0\ X0)\wedge((\neg v3_funct_1\ X0)\wedge((v1_finseq_6\ X0\ (u1_struct_0\ (k15_euclid\ np_2))))\wedge((v1_topreal1\ X0)\wedge((v2_topreal1\ X0)\wedge((v1_goboard5\ X0)\wedge((v2_goboard5\ X0)\wedge(m2_finseq_1\ X0\ (u1_struct_0\ (k15_euclid\ np_2))))))))))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2))))\Rightarrow((X1 = k2_goboard9\ X0)\Leftrightarrow((r3_connsp_1\ (k15_euclid\ np_2)\ (k3_subset_1\ (u1_struct_0\ (k15_euclid\ np_2))\ (k3_topreal1\ np_2\ X0))\ X1)\wedge(r1_tarski\ (k1_tops_1\ (k15_euclid\ np_2)\ (k5_goboard5\ X0\ np_1))\ X1)))) \quad (9)$$

Assume the following.

$$\forall X0.(v6_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v7_ordinal1\ X1)) \quad (10)$$

Theorem 1

$$\forall X0.((\neg v3_funct_1\ X0)\wedge((\neg v1_xboole_0\ X0)\wedge((v1_finseq_6\ X0\ (u1_struct_0\ (k15_euclid\ np_2))))\wedge((v1_topreal1\ X0)\wedge((v2_topreal1\ X0)\wedge((v1_goboard5\ X0)\wedge((v2_goboard5\ X0)\wedge((v1_sprect_2\ X0)\wedge(m2_finseq_1\ X0\ (u1_struct_0\ (k15_euclid\ np_2))))))))))\Rightarrow(r2_jordan2c\ np_2\ (k3_topreal1\ np_2\ X0)\ (k2_goboard9\ X0))$$