

t61_jordan6 (TMRXatAxSLNgvf- bRa466Dt3K19JUYYB7FdL)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ 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 $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_jordan6 : \iota \Rightarrow \iota$ be given. Let $k8_jordan6 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k22_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_euclid : \iota \Rightarrow \iota$ be given. Let $k1_jordan5c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_jordan6 : \iota \Rightarrow \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k8_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k2_jordan5c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\ & \quad np_2)))) \Rightarrow ((v1_topreal2 X0) \Rightarrow ((r1_topreal1 (k15_euclid np_2) \\ & \quad (k18_pscomp_1 X0) (k22_pscomp_1 X0) (k8_jordan6 X0)) \wedge ((r1_topreal1 \\ & \quad (k15_euclid np_2) (k22_pscomp_1 X0) (k18_pscomp_1 X0) (k8_jordan6 \\ & \quad X0)) \wedge ((r1_topreal1 (k15_euclid np_2) (k22_pscomp_1 X0) (k18_pscomp_1 \\ & \quad X0) (k9_jordan6 X0)) \wedge ((r1_topreal1 (k15_euclid np_2) (k18_pscomp_1 \\ & \quad X0) (k22_pscomp_1 X0) (k9_jordan6 X0)) \wedge ((k9_subset_1 (u1_struct_0 \\ & \quad (k15_euclid np_2)) (k8_jordan6 X0) (k9_jordan6 X0) = k2_tarski \\ & \quad (k18_pscomp_1 X0) (k22_pscomp_1 X0)) \wedge ((k4_subset_1 (u1_struct_0 \\ & \quad (k15_euclid np_2)) (k8_jordan6 X0) (k9_jordan6 X0) = X0) \wedge (\neg r1_xxreal_0 \\ & \quad (k18_euclid (k1_jordan5c (k8_jordan6 X0) (k6_jordan6 (k10_real_1 \\ & \quad (k7_real_1 (k6_pscomp_1 X0) (k8_pscomp_1 X0)) np_2)) (k18_pscomp_1 \\ & \quad X0) (k22_pscomp_1 X0))) (k18_euclid (k2_jordan5c (k9_jordan6 \\ & \quad X0) (k6_jordan6 (k10_real_1 (k7_real_1 (k6_pscomp_1 X0) (k8_pscomp_1 \\ & \quad X0)) np_2)) (k22_pscomp_1 X0) (k18_pscomp_1 X0))))))))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 X0))\wedge(m1_subset_1 X2 (k1_zfmisc_1 X0)))\Rightarrow(k4_subset_1 X0 X1 X2 = k2_xboole_0 X1 X2) \quad (3)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))\Rightarrow((\neg v1_xboole_0 (k9_jordan6 X0))\wedge(m1_subset_1 (k9_jordan6 X0) (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \quad (4)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))\Rightarrow((\neg v1_xboole_0 (k8_jordan6 X0))\wedge(m1_subset_1 (k8_jordan6 X0) (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 X0))\wedge(m1_subset_1 X2 (k1_zfmisc_1 X0)))\Rightarrow(k4_subset_1 X0 X1 X2 = k4_subset_1 X0 X2 X1) \quad (6)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0)\wedge((v1_topreal2 X0)\wedge(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2))))))\Rightarrow((r1_tarski (k9_jordan6 X0) X0)\wedge(r1_tarski (k8_jordan6 X0) X0))$$