

t66_jordan1j (TMMfvGNVUEWKe-
jJGWD89Ry6sZV5JZeBHo96)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_compts_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ 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 $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k23_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k22_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k8_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k16_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $k13_pscomp_1 : \iota \Rightarrow \iota$ be given. Let $k12_pscomp_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1_xboole_0 X0) \wedge ((v2_compts_1 X0 (k15_euclid np_2)) \wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow \\ & ((k23_pscomp_1 X0 \in k16_pscomp_1 X0) \wedge (k22_pscomp_1 X0 \in k16_pscomp_1 \\ & X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (\\ & u1_struct_0 (k15_euclid np_2)))))) \Rightarrow (\forall X1. (m1_subset_1 \\ & X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow ((X1 \in k16_pscomp_1 X0) \Rightarrow \\ & (k17_euclid X1 = k8_pscomp_1 X0))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\ & np_2)))) \Rightarrow (((k17_euclid (k13_pscomp_1 X0) = k17_euclid (k23_pscomp_1 \\ & X0)) \wedge ((k17_euclid (k13_pscomp_1 X0) = k17_euclid (k22_pscomp_1 \\ & X0)) \wedge ((k17_euclid (k23_pscomp_1 X0) = k17_euclid (k22_pscomp_1 \\ & X0)) \wedge ((k17_euclid (k23_pscomp_1 X0) = k17_euclid (k12_pscomp_1 \\ & X0)) \wedge (k17_euclid (k22_pscomp_1 X0) = k17_euclid (k12_pscomp_1 \\ & X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v1_xboole_0 X0) \wedge ((v2_compts_1 X0 (k15_euclid np_2)) \wedge \\
& (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow \\
& (\forall X1.((\neg v1_xboole_0 X1) \wedge ((v2_compts_1 X1 (k15_euclid \\
& np_2)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\
& np_2)))))) \Rightarrow (((r1_tarski X0 X1) \wedge (k22_pscomp_1 X1 \in X0)) \Rightarrow (k22_pscomp_1 \\
& X0 = k22_pscomp_1 X1)))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v1_xboole_0 X0) \wedge ((v2_compts_1 X0 (k15_euclid np_2)) \wedge \\
& (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow \\
& (\forall X1.((\neg v1_xboole_0 X1) \wedge ((v2_compts_1 X1 (k15_euclid \\
& np_2)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\
& np_2)))))) \Rightarrow (((r1_tarski X0 X1) \wedge (k23_pscomp_1 X1 \in X0)) \Rightarrow (k23_pscomp_1 \\
& X0 = k23_pscomp_1 X1)))
\end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))) \Rightarrow (m1_subset_1 (k23_pscomp_1 X0) (u1_struct_0 (k15_euclid np_2))) \tag{6}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))) \Rightarrow (m1_subset_1 (k22_pscomp_1 X0) (u1_struct_0 (k15_euclid np_2))) \tag{7}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v1_xboole_0 X0) \wedge ((v2_compts_1 X0 (k15_euclid np_2)) \wedge \\
& (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))))) \Rightarrow \\
& (\forall X1.((\neg v1_xboole_0 X1) \wedge ((v2_compts_1 X1 (k15_euclid \\
& np_2)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\
& np_2)))))) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (((\neg k23_pscomp_1 X1 \in X0) \wedge (\neg k22_pscomp_1 \\
& X1 \in X0)) \vee (k8_pscomp_1 X0 = k8_pscomp_1 X1))))
\end{aligned}$$