

t76_jgraph_6 (TMUanBhxtw-
StoCG6668WKtekRGHQJpByoc7)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_compts_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_topreal2 : \iota \Rightarrow o$ be given. Let $r1_jordan6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X2.((\neg v1_xboole_0 X2) \wedge ((v2_compts_1 X2 (k15_euclid \\
 & np_2)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\
 & np_2))))) \Rightarrow (((v1_topreal2 X2) \wedge ((X0 \in X2) \wedge (X1 \in X2))) \Rightarrow ((r1_jordan6 \\
 & X2 X0 X1) \vee (r1_jordan6 X2 X1 X0))))))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X4.((\neg v1_xboole_0 X4) \wedge ((v2_compts_1 X4 (k15_euclid \\
 & np_2)) \wedge (m1_subset_1 X4 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\
 & np_2))))) \Rightarrow (\neg (v1_topreal2 X4) \wedge ((X0 \in X4) \wedge ((X1 \in X4) \wedge ((X2 \in X4) \wedge \\
 & ((X3 \in X4) \wedge ((r1_jordan6 X4 X1 X2) \wedge ((r1_jordan6 X4 X2 X3) \wedge ((\neg r1_jordan6 \\
 & X4 X0 X1) \wedge ((\neg (r1_jordan6 X4 X1 X0) \wedge (r1_jordan6 X4 X0 X2)) \wedge ((\neg (r1_jordan6 \\
 & X4 X2 X0) \wedge (r1_jordan6 X4 X0 X3)) \wedge (\neg r1_jordan6 X4 X3 X0))))))))))))))
 \end{aligned}$$