

t12_jordan17
(TMcLwU71bpmr47bfUNzatjUQjFqBTTepq9a)

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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 $r1_jordan17 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_jordan6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 (k15_euclid \\
& \quad np_2)))) \Rightarrow ((r1_jordan17 X0 X1 X2 X3 X4) \Leftrightarrow (\neg(\neg(r1_jordan6 X0 X1 X2) \wedge \\
& \quad ((r1_jordan6 X0 X2 X3) \wedge (r1_jordan6 X0 X3 X4))) \wedge (\neg(r1_jordan6 \\
& \quad X0 X2 X3) \wedge (r1_jordan6 X0 X3 X4) \wedge (r1_jordan6 X0 X4 X1)))) \wedge (\neg(r1_jordan6 \\
& \quad X0 X3 X4) \wedge (r1_jordan6 X0 X4 X1) \wedge (r1_jordan6 X0 X1 X2))) \wedge (\neg(r1_jordan6 \\
& \quad X0 X4 X1) \wedge (r1_jordan6 X0 X1 X2) \wedge (r1_jordan6 X0 X2 X3))))))))) \\
& \tag{1}
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\
& \quad (k15_euclid np_2)))))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\
& \quad (k15_euclid np_2)))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\
& \quad (k15_euclid np_2)))) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\
& \quad (k15_euclid np_2)))) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 \\
& \quad (k15_euclid np_2)))) \Rightarrow ((r1_jordan17 X0 X1 X2 X3 X4) \Rightarrow (r1_jordan17 \\
& \quad X0 X4 X1 X2 X3))))))
\end{aligned}$$