

t12_euclid_6

(TMPt8itxiFgxNK5qDcy7iqoAxJ55PKzdxva)

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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 $k1_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\neg(X0 \in k1_rltopsp1 (k15_euclid np_2) X1 X2) \wedge ((X0 \in k1_rltopsp1 \\
 & (k15_euclid np_2) X1 X3) \wedge ((X1 \neq X0) \wedge ((\neg X2 \in k1_rltopsp1 (k15_euclid \\
 & np_2) X1 X3) \wedge (\neg X3 \in k1_rltopsp1 (k15_euclid np_2) X1 X2))))))))) \quad (1)
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (\neg(X0 \in k1_rltopsp1 (k15_euclid np_2) X1 X2) \wedge ((X0 \in k1_rltopsp1 \\
 & (k15_euclid np_2) X1 X3) \wedge ((X2 \neq X3) \wedge ((X0 \neq X1) \wedge ((\neg X2 \in k1_rltopsp1 \\
 & (k15_euclid np_2) X1 X3) \wedge (\neg X3 \in k1_rltopsp1 (k15_euclid np_2) \\
 & X1 X2)))))))))
 \end{aligned}$$