

t44_topreal9 (TMRU-
FymeCXd9umN1fATq6qu1dVxF7N6jCX3)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. 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 $k7_jgraph_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_euclid : \iota \Rightarrow \iota$ be given. Let $k5_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\
 & (v1_xreal_0 X2) \Rightarrow (k7_jgraph_6 X0 X1 X2 = ReplSep (toset (\lambda X3 : \\
 & \iota.m1_subset_1 X3 (u1_struct_0 (k15_euclid np_2)))) (\lambda X3 : \\
 & \iota.r1_xxreal_0 (k12_euclid (k5_algstr_0 (k15_euclid np_2) \\
 & X3 (k19_euclid X0 X1))) X2) (\lambda X3 : \iota.X3)))))) \quad (1)
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\
 & (v1_xreal_0 X2) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid \\
 & np_2)))) \Rightarrow ((X3 \in k7_jgraph_6 X0 X1 X2) \Leftrightarrow (r1_xxreal_0 (k12_euclid \\
 & (k5_algstr_0 (k15_euclid np_2) X3 (k19_euclid X0 X1))) X2))))))
 \end{aligned}$$