

t21_uniroots
(TMSJutj6v8yffFznKuJoahJZPKZTFkDD6Md8)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_complfld : \iota$ be given. Let $k2_uniroots : \iota \Rightarrow \iota$ be given. Let $m1_comptrig : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_group_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v1_xboole_0 X0) \wedge (m2_subset_1 X0 k1_numbers k5_numbers)) \Rightarrow \\ (k2_uniroots X0 = ReplSep (toset (\lambda X1 : \iota. m1_subset_1 X1 (u1_struct_0 \\ k1_complfld))) (\lambda X1 : \iota. m1_comptrig X1 (k1_group_1 k1_complfld) \\ X0) (\lambda X1 : \iota. X1))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0. ((\neg v1_xboole_0 X0) \wedge (m2_subset_1 X0 k1_numbers k5_numbers)) \Rightarrow \\ (\forall X1. (m1_subset_1 X1 (u1_struct_0 k1_complfld)) \Rightarrow ((X1 \in \\ k2_uniroots X0) \Leftrightarrow (m1_comptrig X1 (k1_group_1 k1_complfld) X0))) \end{aligned}$$