

l27_dtconstr
(TMUHpt3T1qCodZsxbXeMipgiNRwVW56v5Tm)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_dtconstr : \iota \Rightarrow \iota$ be given. Let $k5_dtconstr : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k5_trees_3 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $c2_dtconstr : \iota$ be given. Let $k1_lang1 : \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_lang1 : \iota \Rightarrow o$ be given. Let $l1_lang1 : \iota \Rightarrow o$ be given. Let $k2_trees_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_trees_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_lang1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_dtconstr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_trees_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$c2_dtconstr \in k1_lang1 k5_dtconstr \quad (2)$$

Assume the following.

$$(\neg v2_struct_0 k5_dtconstr) \wedge ((v1_lang1 k5_dtconstr) \wedge (l1_lang1 k5_dtconstr)) \quad (3)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_lang1 X0)) \Rightarrow (m1_subset_1 (k4_dtconstr X0) (k1_zfmisc_1 (k5_trees_3 (u1_struct_0 X0)))) \quad (4)$$

Assume the following.

$$m1_subset_1 c2_dtconstr (u1_struct_0 k5_dtconstr) \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_lang1 X0)) \Rightarrow (\forall X1.(m1_subset_1 \\
& X1 (k1_zfmisc_1 (k5_trees_3 (u1_struct_0 X0)))) \Rightarrow ((X1 = k4_dtconstr \\
& X0) \Leftrightarrow ((\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow ((X2 \in k1_lang1 \\
& X0) \Rightarrow (k2_trees_4 (u1_struct_0 X0) X2 \in X1))) \wedge ((\forall X2.(m1_subset_1 \\
& X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_trees_4 X3 (k5_trees_3 (\\
& u1_struct_0 X0)) X1) \Rightarrow ((r1_lang1 X0 X2 (k1_dtconstr (u1_struct_0 \\
& X0) (k5_trees_3 (u1_struct_0 X0)) X3)) \Rightarrow (k8_trees_4 (u1_struct_0 \\
& X0) X2 X3 \in X1)))) \wedge (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k5_trees_3 \\
& (u1_struct_0 X0)))) \Rightarrow ((\forall X3.(m1_subset_1 X3 (u1_struct_0 \\
& X0)) \Rightarrow ((X3 \in k1_lang1 X0) \Rightarrow (k2_trees_4 (u1_struct_0 X0) X3 \in X2))) \wedge \\
& (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_trees_4 \\
& X4 (k5_trees_3 (u1_struct_0 X0)) X2) \Rightarrow ((r1_lang1 X0 X3 (k1_dtconstr \\
& (u1_struct_0 X0) (k5_trees_3 (u1_struct_0 X0)) X4) \Rightarrow (k8_trees_4 \\
& (u1_struct_0 X0) X3 X4 \in X2)))))) \Rightarrow (r1_tarski X1 X2))))))
\end{aligned} \tag{6}$$

Theorem 1

$$(\neg v1_xboole_0 (k4_dtconstr k5_dtconstr)) \wedge (m1_subset_1 (k4_dtconstr \\
k5_dtconstr) (k1_zfmisc_1 (k5_trees_3 (u1_struct_0 k5_dtconstr))))$$