

t38_graph_5

(TMb7VRv9KbwA4MrR1nfjscmLkgwiBSMhhW2)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_graph_1 : \iota \Rightarrow o$ be given. Let $v7_graph_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_graph_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_graph_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_graph_5 : \iota \Rightarrow \iota$ be given. Let $v1_graph_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_graph_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $u2_graph_1 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_graph_1 X0)) \Rightarrow (k7_graph_5 \\ X0 = \text{ReplSep} (\text{toset} (\lambda X1 : \iota. (v7_graph_1 X1 X0) \wedge ((v1_graph_4 \\ X1 X0) \wedge (m2_graph_1 X1 X0)))) (\lambda X1 : \iota. \text{True}) (\lambda X1 : \iota. X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_graph_1 X0)) \Rightarrow (\forall X1. \\ ((v7_graph_1 X1 X0) \wedge (m2_graph_1 X1 X0)) \Rightarrow (k6_graph_5 X0 X1 = \text{ReplSep} \\ (\text{toset} (\lambda X2 : \iota. (v7_graph_1 X2 X0) \wedge ((v1_graph_4 X2 X0) \wedge (m2_graph_1 \\ X2 X0)))) (\lambda X2 : \iota. (X2 \neq k1_xboole_0) \wedge ((k1_funct_1 (u1_graph_1 \\ X0) (k1_funct_1 X2 np_1) = k1_funct_1 (u1_graph_1 X0) (k1_funct_1 \\ X1 np_1)) \wedge ((k1_funct_1 (u2_graph_1 X0) (k1_funct_1 X2 (k3_finseq_1 \\ X2)) = k1_funct_1 (u2_graph_1 X0) (k1_funct_1 X1 (k3_finseq_1 X1))) \wedge \\ (r1_tarski (k10_xtuple_0 X2) (k10_xtuple_0 X1)))))) (\lambda X2 : \iota. \\ X2))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_graph_1 X0)) \Rightarrow (\forall X1. \\ ((v7_graph_1 X1 X0) \wedge (m2_graph_1 X1 X0)) \Rightarrow (r1_tarski (k6_graph_5 \\ X0 X1) (k7_graph_5 X0))) \end{aligned}$$