

l84_graph_5

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v6_graph_1 : \iota \Rightarrow o$ be given. Let $l1_graph_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k5_graph_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_graph_5 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v2_struct_0 X1) \wedge (l1_graph_1 X1)) \Rightarrow (\\ & \quad \forall X2. (m1_subset_1 X2 (u1_struct_0 X1)) \Rightarrow (\forall X3. (m1_subset_1 \\ & \quad X3 (u1_struct_0 X1)) \Rightarrow (r1_tarski (k5_graph_5 X1 X2 X3 X0) (k7_graph_5 \\ & \quad X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. ((r1_tarski X0 X1) \wedge (v1_finset_1 X1)) \Rightarrow (v1_finset_1 X0) \tag{2}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v6_graph_1 X0) \wedge (l1_graph_1 X0))) \Rightarrow (v1_finset_1 (k7_graph_5 X0)) \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v2_struct_0 X1) \wedge ((v6_graph_1 X1) \wedge (\\ & l1_graph_1 X1))) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_struct_0 X1)) \Rightarrow \\ & (\forall X3. (m1_subset_1 X3 (u1_struct_0 X1)) \Rightarrow (v1_finset_1 (\\ & k5_graph_5 X1 X2 X3 X0)))) \end{aligned}$$