

t8_graph_5

(TMYzzV4q1wSw5f2JgB9iXQyur3MUV9yrnFs)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_graph_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_graph_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u2_graph_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_graph_1 X0)) \Rightarrow (\forall X1. \\ & (X1 \in u4_struct_0 X0) \Rightarrow ((k1_funct_1 (u1_graph_1 X0) X1 \in u1_struct_0 \\ & X0) \wedge (k1_funct_1 (u2_graph_1 X0) X1 \in u1_struct_0 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m2_finseq_1 X2 X0) \Rightarrow (((X1 \in k4_finseq_1 X2) \vee (X1 \in k4_finseq_1 X2)) \Rightarrow (k1_funct_1 X2 X1 \in X0)) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. ((\neg v2_struct_0 \\ & X1) \wedge (l1_graph_1 X1)) \Rightarrow (\forall X2. (m2_finseq_1 X2 (u4_struct_0 \\ & X1)) \Rightarrow ((X0 \in k4_finseq_1 X2) \Rightarrow ((k1_funct_1 (u1_graph_1 X1) (k1_funct_1 \\ & X2 X0) \in u1_struct_0 X1) \wedge (k1_funct_1 (u2_graph_1 X1) (k1_funct_1 \\ & X2 X0) \in u1_struct_0 X1)))))) \end{aligned}$$