

t18_fomodel2

(TMRTSvShorLeWni6BV5ygV7qWCv7PeYge2v)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v6_struct_0 : \iota \Rightarrow o$ be given. Let $v11_fomodel1 : \iota \Rightarrow o$ be given. Let $l1_fomodel1 : \iota \Rightarrow o$ be given. Let $v4_fomodel2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k15_fomodel1 : \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k32_fomodel2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v5_fomodel2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k36_fomodel2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k35_fomodel2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k28_fomodel2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 X0))) \wedge (v7_ordinal1 X1)) \Rightarrow (k36_fomodel2 X0 X1 = k28_fomodel2 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (((\neg v6_struct_0 X1) \wedge ((v11_fomodel1 X1) \wedge (l1_fomodel1 X1))) \Rightarrow (\forall X2. ((v4_fomodel2 X2 X1) \wedge (m2_subset_1 X2 (k3_finseq_2 (k15_fomodel1 X1)) (k6_subset_1 (k3_finseq_2 (k15_fomodel1 X1)) (k1_tarski k1_xboole_0)))) \Rightarrow ((k32_fomodel2 X1 X2 = k1_nat_1 X0 np_1) \Rightarrow ((v5_fomodel2 X2 X1) \vee (X2 \in k35_fomodel2 X1 X0)))))) \quad (3)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (((\neg v6_struct_0 X1) \wedge ((v11_fomodel1 X1) \wedge (l1_fomodel1 X1))) \Rightarrow (\forall X2. ((v4_fomodel2 X2 X1) \wedge (m2_subset_1 X2 (k3_finseq_2 (k15_fomodel1 X1)) (k6_subset_1 (k3_finseq_2 (k15_fomodel1 X1)) (k1_tarski k1_xboole_0)))) \Rightarrow (((k32_fomodel2 X1 X2 = k1_nat_1 X0 np_1) \wedge (v5_fomodel2 X2 X1)) \Rightarrow (X2 \in k28_fomodel2 X1 X0)))))) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v6_struct_0 X0)\wedge((v11_fomodel1 X0)\wedge(l1_fomodel1 X0)))\wedge(v7_ordinal1 X1))\Rightarrow(\forall X2.(m1_subset_1 X2 (k36_fomodel2 X0 X1))\Rightarrow(v5_fomodel2 X2 X0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v6_struct_0 X0)\wedge((v11_fomodel1 X0)\wedge(l1_fomodel1 X0)))\wedge(v7_ordinal1 X1))\Rightarrow(\forall X2.(m1_subset_1 X2 (k35_fomodel2 X0 X1))\Rightarrow(\neg v5_fomodel2 X2 X0)) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0)\Rightarrow(\forall X1.((\neg v6_struct_0 X1)\wedge \\ & ((v11_fomodel1 X1)\wedge(l1_fomodel1 X1)))\Rightarrow(\forall X2.((v4_fomodel2 \\ & X2 X1)\wedge(m2_subset_1 X2 (k3_finseq_2 (k15_fomodel1 X1)) (k6_subset_1 \\ & (k3_finseq_2 (k15_fomodel1 X1)) (k1_tarski k1_xboole_0))))\Rightarrow \\ & ((k32_fomodel2 X1 X2 = k1_nat_1 X0 np_1)\Rightarrow(((v5_fomodel2 X2 X1)\Rightarrow \\ & (X2 \in k36_fomodel2 X1 X0))\wedge(((X2 \in k36_fomodel2 X1 X0)\Rightarrow(v5_fomodel2 \\ & X2 X1))\wedge(((\neg v5_fomodel2 X2 X1)\Rightarrow(X2 \in k35_fomodel2 X1 X0))\wedge(\neg(X2 \in \\ & k35_fomodel2 X1 X0)\wedge(v5_fomodel2 X2 X1)))))))) \end{aligned}$$