

l38_fomodel2

(TMG1mtxZSzckPEkjpPcJrn4Csycw7hJYWH)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k9_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k37_fomodel1 : \iota \Rightarrow \iota$ be given. Let $k3_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_margrel1 : \iota$ be given. Let $k16_fomodel2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_fomodel1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k24_fomodel2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k13_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k14_fomodel0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0. k3_finseq_2 X0 = k13_finseq_1 X0 \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.((\neg v6_struct_0\ X1) \wedge \\ & ((v11_fomodel1\ X1) \wedge (l1_fomodel1\ X1))) \Rightarrow (\forall X2.(\neg v1_xboole_0 \\ & X2) \Rightarrow (\forall X3.(\neg v1_xboole_0\ X3) \Rightarrow (\forall X4.(m2_subset_1 \\ & X4\ (k9_funct_2\ (k37_fomodel1\ X1)\ (k3_rfunct_3\ (k3_finseq_2\ X2) \\ & (k2_xboole_0\ X2\ k6_margrel1)))\ (k16_fomodel2\ X1\ X2)) \Rightarrow (\forall X5. \\ & (m2_subset_1\ X5\ (k9_funct_2\ (k37_fomodel1\ X1)\ (k3_rfunct_3\ (k3_finseq_2 \\ & X3)\ (k2_xboole_0\ X3\ k6_margrel1)))\ (k16_fomodel2\ X1\ X3)) \Rightarrow (r1_tarski \\ & (k1_relset_1\ (k6_subset_1\ (k3_finseq_2\ (k1_fomodel1\ X1))\ (k1_tarski \\ & k1_xboole_0))\ (k24_fomodel2\ X1\ X2\ X0\ X4))\ (k1_relset_1\ (k6_subset_1 \\ & (k3_finseq_2\ (k1_fomodel1\ X1))\ (k1_tarski\ k1_xboole_0))\ (k24_fomodel2 \\ & X1\ X3\ X0\ X5))))))))) \end{aligned} \quad (6)$$

Assume the following.

$$(\neg v1_xboole_0\ k4_ordinal1) \wedge (v3_ordinal1\ k4_ordinal1) \quad (7)$$

Assume the following.

$$m1_subset_1\ k5_numbers\ (k1_zfmisc_1\ k1_numbers) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.k14_fomodel0\ X0\ X1 = k6_subset_1\ X0\ X1 \quad (9)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Leftrightarrow (X0 \in k4_ordinal1) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1_tarski\ X0\ X1) \wedge (r1_tarski\ X1\ X0)) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xboole_0\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ X0)) \Rightarrow (v1_xboole_0\ X1)) \quad (12)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1\ X0\ k1_numbers\ k5_numbers) \Rightarrow (\forall X1. \\ & ((\neg v6_struct_0\ X1) \wedge ((v11_fomodel1\ X1) \wedge (l1_fomodel1\ X1))) \Rightarrow (\\ & \forall X2.(\neg v1_xboole_0\ X2) \Rightarrow (\forall X3.(\neg v1_xboole_0\ X3) \Rightarrow \\ & (\forall X4.(m2_subset_1\ X4\ (k9_funct_2\ (k37_fomodel1\ X1)\ (k3_rfunct_3 \\ & (k3_finseq_2\ X2)\ (k2_xboole_0\ X2\ k6_margrel1)))\ (k16_fomodel2 \\ & X1\ X2)) \Rightarrow (\forall X5.(m2_subset_1\ X5\ (k9_funct_2\ (k37_fomodel1 \\ & X1)\ (k3_rfunct_3\ (k3_finseq_2\ X3)\ (k2_xboole_0\ X3\ k6_margrel1))) \\ & (k16_fomodel2\ X1\ X3)) \Rightarrow (k1_relset_1\ (k6_subset_1\ (k3_finseq_2 \\ & (k1_fomodel1\ X1))\ (k1_tarski\ k1_xboole_0))\ (k24_fomodel2\ X1\ X2 \\ & X0\ X4) = k1_relset_1\ (k6_subset_1\ (k3_finseq_2\ (k1_fomodel1\ X1)) \\ & (k1_tarski\ k1_xboole_0))\ (k24_fomodel2\ X1\ X3\ X0\ X5))))))))) \end{aligned}$$