

t5_fomodel1

(TMVSshY814MgX72WQducwMEaYUzDHXgru7t)

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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 $k35_fomodel1 : \iota \Rightarrow \iota$ be given. 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 $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k15_fomodel1 : \iota \Rightarrow \iota$ be given. Let $k28_fomodel1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k27_fomodel1 : \iota \Rightarrow \iota$ be given. Let $k25_fomodel1 : \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((\neg v1_xboole_0 X0) \wedge \\ & (((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X1)))))) \wedge (m1_subset_1 X3 X0))) \Rightarrow (k3_funct_2 X0 \\ & X1 X2 X3 = k1_funct_1 X2 X3) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. ((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 X0))) \Rightarrow (k35_fomodel1 X0 = k27_fomodel1 X0) \quad (5)$$

Assume the following.

$$\forall X0.((\neg v6_struct_0 X0)\wedge((v11_fomodel1 X0)\wedge(l1_fomodel1 X0)))\Rightarrow(k28_fomodel1 X0 = k25_fomodel1 X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v6_struct_0 X1)\wedge((v11_fomodel1 X1)\wedge(l1_fomodel1 X1)))\Rightarrow(\neg(X0 \in k27_fomodel1 X1)\wedge(\forall X2.(m2_subset_1 X2 k1_numbers k5_numbers)\Rightarrow(\neg X0 \in k1_funct_1 (k25_fomodel1 X1) X2))) \quad (7)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1)\wedge(v3_ordinal1 k4_ordinal1) \quad (8)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (9)$$

Assume the following.

$$\forall X0.((\neg v6_struct_0 X0)\wedge((v11_fomodel1 X0)\wedge(l1_fomodel1 X0)))\Rightarrow((v1_funct_1 (k28_fomodel1 X0))\wedge((v1_funct_2 (k28_fomodel1 X0) k5_numbers (k9_setfam_1 (k3_finseq_2 (k15_fomodel1 X0)))))\wedge(m1_subset_1 (k28_fomodel1 X0) (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (k9_setfam_1 (k3_finseq_2 (k15_fomodel1 X0)))))))) \quad (10)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(v1_xboole_0 X1)) \quad (11)$$

Theorem 1

$$\forall X0.\forall X1.((\neg v6_struct_0 X1)\wedge((v11_fomodel1 X1)\wedge(l1_fomodel1 X1)))\Rightarrow(\neg(X0 \in k35_fomodel1 X1)\wedge(\forall X2.(m2_subset_1 X2 k1_numbers k5_numbers)\Rightarrow(\neg X0 \in k3_funct_2 k5_numbers (k9_setfam_1 (k3_finseq_2 (k15_fomodel1 X1)) (k28_fomodel1 X1) X2))))$$