

l36_fomodel3

(TMPGqnJ99e7Bc37Mok4FSUjxQEFnksvVZep)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_fomodel3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (\neg v1_xboole_0 X1) \Rightarrow \\ & (\forall X2. (\neg v1_xboole_0 X2) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow \\ & (\forall X4. ((\neg v1_xboole_0 X4) \wedge (m1_subset_1 X4 (k1_zfmisc_1 \\ & X0)))) \Rightarrow (\forall X5. (m1_subset_1 X5 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X1 X4)))) \Rightarrow (\forall X6. (m1_subset_1 X6 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X2)))) \Rightarrow (r2_relset_1 (k4_finseq_2 X3 X1) (k4_finseq_2 X3 X2) (\\ & k8_fomodel3 X1 X2 (k4_relset_1 X1 X4 X0 X2 X5 X6) X3) (k4_relset_1 \\ & (k4_finseq_2 X3 X1) (k4_finseq_2 X3 X4) (k4_finseq_2 X3 X0) (k4_finseq_2 \\ & X3 X2) (k8_fomodel3 X1 X4 X5 X3) (k8_fomodel3 X0 X2 X6 X3))))))))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (\neg v1_xboole_0 X1) \Rightarrow \\ & (\forall X2. (\neg v1_xboole_0 X2) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow \\ & (\forall X4. (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow \\ & (\forall X5. (m1_subset_1 X5 (k1_zfmisc_1 (k2_zfmisc_1 X1 X2)))) \Rightarrow \\ & (r2_relset_1 (k4_finseq_2 X3 X0) (k4_finseq_2 X3 X2) (k8_fomodel3 \\ & X0 X2 (k4_relset_1 X0 X1 X1 X2 X4 X5) X3) (k4_relset_1 (k4_finseq_2 \\ & X3 X0) (k4_finseq_2 X3 X1) (k4_finseq_2 X3 X1) (k4_finseq_2 X3 X2) \\ & (k8_fomodel3 X0 X1 X4 X3) (k8_fomodel3 X1 X2 X5 X3))))))))) \end{aligned}$$