

t56_modelc_3
(TMX2G5DeEapCfkmZcTxR41nCD19TY471otV)

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Let $v1_modelc_2 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_modelc_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_modelc_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_modelc_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u2_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_orders_1 : \iota \Rightarrow \iota$ be given. Let $k1_modelc_3 : \iota \Rightarrow \iota$ 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 $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1_xboole_0 X1) \Rightarrow ((r1_tarski X1 X0) \Leftrightarrow (X1 \in k1_orders_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_modelc_2 X0) \wedge (m1_finseq_1 X0 k5_numbers)) \wedge (l1_modelc_3 X1 X0)) \Rightarrow (m1_subset_1 (u2_modelc_3 X0 X1) (k1_zfmisc_1 (k1_modelc_3 X0))) \quad (5)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1.(l1_modelc_3 X1 X0) \Rightarrow ((v3_modelc_3 X1 X0) \Leftrightarrow (u2_modelc_3 X0 X1 = k1_xboole_0))) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & \forall X1.((v1_modelc_3 X1 X0) \wedge (l1_modelc_3 X1 X0)) \Rightarrow ((\neg v3_modelc_3 \\ & X1 X0) \Rightarrow ((u2_modelc_3 X0 X1 \neq k1_xboole_0) \wedge (u2_modelc_3 X0 X1 \in k1_orders_1 \\ & (k1_modelc_3 X0)))))) \end{aligned}$$