

l11_modelc_3 (TMMppU- GRQp1KJV TuCfnzrNT2PxTS5FgHsWG)

October 27, 2020

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 $v5_modelc_2 : \iota \Rightarrow o$ be given. Let $v4_modelc_2 : \iota \Rightarrow o$ be given. Let $v7_modelc_2 : \iota \Rightarrow o$ be given. Let $v8_modelc_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k12_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k13_modelc_2 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (\neg(\neg v4_modelc_2 X0) \wedge (\neg v5_modelc_2 X0) \wedge (\neg v7_modelc_2 X0) \wedge \\ (\neg v8_modelc_2 X0))) \Rightarrow ((r2_modelc_2 (k11_modelc_2 X0) X0) \wedge (r2_modelc_2 \\ (k12_modelc_2 X0) X0)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ \forall X1. ((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\\ \forall X2. ((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \Rightarrow (\\ ((r2_modelc_2 X0 X1) \wedge (r2_modelc_2 X2 X1)) \Rightarrow (m1_subset_1 (k2_tarski \\ X0 X2) (k1_zfmisc_1 (k13_modelc_2 X1)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. ((v1_modelc_2 X0) \wedge (m1_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v1_modelc_2 (k12_modelc_2 X0)) \wedge (m2_finseq_1 (k12_modelc_2 \\ X0) k5_numbers)) \quad (4)$$

Assume the following.

$$\forall X0. ((v1_modelc_2 X0) \wedge (m1_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v1_modelc_2 (k11_modelc_2 X0)) \wedge (m2_finseq_1 (k11_modelc_2 \\ X0) k5_numbers)) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & (\neg(\neg v5_modelc_2 X0) \wedge (\neg v4_modelc_2 X0) \wedge (\neg v7_modelc_2 X0) \wedge \\ & (\neg v8_modelc_2 X0))) \Rightarrow (m1_subset_1 (k2_tarski (k11_modelc_2 \\ & X0) (k12_modelc_2 X0)) (k1_zfmisc_1 (k13_modelc_2 X0))) \end{aligned}$$