

t71_modelc_3 (TMdajQywZttpwahaWxwvXB- swLsGQAepAawV)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k25_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k43_modelc_2 : \iota$ be given. Let $v1_modelc_2 : \iota \Rightarrow o$ be given. Let $v5_modelc_3 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $r7_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_modelc_2 : \iota \Rightarrow \iota$ be given. Let $r8_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_modelc_3 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_modelc_3 : \iota \Rightarrow \iota$ be given. Let $g1_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_modelc_3 : \iota \Rightarrow \iota$ 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 $k9_modelc_2 : \iota$ be given. Let $k13_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_modelc_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k48_modelc_2 : \iota \Rightarrow \iota$ be given. Let $u1_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u3_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k7_modelc_3 : \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0.k2_xboole_0 X0 k1_xboole_0 = X0 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (3)$$

Assume the following.

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

Assume the following.

$$\forall X0.\exists X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \wedge (v1_xboole_0 X1) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 X0))\wedge(m1_subset_1 X2 (k1_zfmisc_1 X0)))\Rightarrow(k4_subset_1 X0 X1 X1 = X1) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((v1_modelc_2 X0)\wedge(m1_finseq_1 X0 k5_numbers))\wedge((m1_subset_1 X1 (k1_zfmisc_1 (k1_modelc_3 X0)))\wedge((m1_subset_1 X2 (k1_zfmisc_1 (k1_modelc_3 X0)))\wedge(m1_subset_1 X3 (k1_zfmisc_1 (k1_modelc_3 X0))))))\Rightarrow(\forall X4.\forall X5.\forall X6.\forall X7.(g1_modelc_3 X0 X1 X2 X3 = g1_modelc_3 X4 X5 X6 X7)\Rightarrow((X0 = X4)\wedge((X1 = X5)\wedge((X2 = X6)\wedge(X3 = X7))))) \quad (7)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow(m1_subset_1 (k8_modelc_3 X0) (k1_zfmisc_1 (k1_modelc_3 X0))) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_modelc_2 X0)\wedge(m1_finseq_1 X0 k5_numbers))\wedge((v1_modelc_3 X1 X0)\wedge(l1_modelc_3 X1 X0)))\Rightarrow(m1_subset_1 (k14_modelc_3 X0 X1) (k1_zfmisc_1 k9_modelc_2)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_modelc_2 X0)\wedge(m1_finseq_1 X0 k5_numbers))\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k1_modelc_3 X0))))\Rightarrow(m1_subset_1 (k13_modelc_3 X0 X1) (k1_zfmisc_1 k9_modelc_2)) \quad (10)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow((v1_modelc_3 (k11_modelc_3 X0) X0)\wedge((v3_modelc_3 (k11_modelc_3 X0) X0)\wedge(l1_modelc_3 (k11_modelc_3 X0) X0))) \quad (11)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k9_modelc_2))\Rightarrow(k48_modelc_2 X0 = ReplSep (toset (\lambda X1 : \iota.(v1_modelc_2 X1)\wedge(m2_finseq_1 X1 k5_numbers))) (\lambda X1 : \iota.\exists X2.((v1_modelc_2 X2)\wedge(m2_finseq_1 X2 k5_numbers))\wedge((X2 \in X0)\wedge(X1 = k6_modelc_2 X2)) (\lambda X1 : \iota.X1))) \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k25_modelc_2 k43_modelc_2))\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 k9_modelc_2))\Rightarrow((r8_modelc_2 X0 X1)\Leftrightarrow(\forall X2.((v1_modelc_2 X2)\wedge(m2_finseq_1 X2 k5_numbers))\Rightarrow((X2 \in X1)\Rightarrow(r7_modelc_2 X0 X2)))))) \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & \forall X1.((v1_modelc_3 X1 X0) \wedge (l1_modelc_3 X1 X0)) \Rightarrow (k14_modelc_3 \\ & X0 X1 = k2_xboole_0 (k4_subset_1 (k1_modelc_3 X0) (u1_modelc_3 \\ & X0 X1) (u2_modelc_3 X0 X1)) (k48_modelc_2 (k13_modelc_3 X0 (u3_modelc_3 \\ & X0 X1)))))) \end{aligned} \quad (14)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & \forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_modelc_3 X0))) \Rightarrow (\\ & k13_modelc_3 X0 X1 = X1)) \end{aligned} \quad (15)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (16)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & k11_modelc_3 X0 = g1_modelc_3 X0 (k7_modelc_3 X0) (k7_modelc_3 \\ & X0) (k8_modelc_3 X0)) \end{aligned} \quad (17)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (k8_modelc_3 X0 = k1_tarski X0) \quad (18)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (k7_modelc_3 X0 = k1_xboole_0) \quad (19)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (20)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v1_modelc_2 X0) \wedge (m1_finseq_1 X0 k5_numbers)) \wedge \\ & (l1_modelc_3 X1 X0)) \Rightarrow ((v1_modelc_3 X1 X0) \Rightarrow (X1 = g1_modelc_3 X0 \\ & (u1_modelc_3 X0 X1) (u2_modelc_3 X0 X1) (u3_modelc_3 X0 X1))) \end{aligned} \quad (21)$$

Theorem 1

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k25_modelc_2 k43_modelc_2)) \Rightarrow (\forall X1. \\ & ((v1_modelc_2 X1) \wedge ((v5_modelc_3 X1) \wedge (m2_finseq_1 X1 k5_numbers))) \Rightarrow \\ & ((r7_modelc_2 X0 (k6_modelc_2 X1)) \Rightarrow (r8_modelc_2 X0 (k14_modelc_3 \\ & X1 (k11_modelc_3 X1)))))) \end{aligned}$$