

t77_modelc_2 (TMHKn- LUEWBpMFr7LJW5Pch9QU1KVEspaoFc)

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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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k9_modelc_2 : \iota$ be given. Let $r8_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k48_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k29_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. 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 $r7_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_modelc_2 : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & \forall X1.(m1_subset_1 X1 (k25_modelc_2 k43_modelc_2)) \Rightarrow ((r7_modelc_2 \\ & X1 (k6_modelc_2 X0)) \Leftrightarrow (r7_modelc_2 (k29_modelc_2 k43_modelc_2 \\ & X1 np_1) X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (2)$$

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.

$$\forall X0.((v1_modelc_2 X0) \wedge (m1_finseq_1 X0 k5_numbers)) \Rightarrow (v1_modelc_2 (k6_modelc_2 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(m1_finseq_1 X0 k5_numbers) \Rightarrow (m2_finseq_1 (k6_modelc_2 X0) k5_numbers) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k9_modelc_2)) \Rightarrow (m1_subset_1 (k48_modelc_2 X0) (k1_zfmisc_1 k9_modelc_2)) \quad (7)$$

Assume the following.

$$\neg v1_xboole_0 k43_modelc_2 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X0) \wedge ((m1_subset_1 X1 (k25_modelc_2 X0)) \wedge (v7_ordinal1 X2))) \Rightarrow (m1_subset_1 (k29_modelc_2 X0 X1 X2) (k25_modelc_2 X0))) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k9_modelc_2)) \Rightarrow (k48_modelc_2 X0 = ReplSep (toset (\lambda X1 : \iota.(v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers))) (\lambda X1 : \iota.\exists X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge ((X2 \in X0) \wedge (X1 = k6_modelc_2 X2)))) (\lambda X1 : \iota.X1)) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k25_modelc_2 k43_modelc_2)) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 k9_modelc_2)) \Rightarrow ((r8_modelc_2 X0 X1) \Leftrightarrow (\forall X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \Rightarrow ((X2 \in X1) \Rightarrow (r7_modelc_2 X0 X2))))) \quad (11)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (12)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 (k25_modelc_2 k43_modelc_2)) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 k9_modelc_2)) \Rightarrow ((r8_modelc_2 X0 (k48_modelc_2 X1)) \Leftrightarrow (r8_modelc_2 (k29_modelc_2 k43_modelc_2 X0 np_1) X1)))$$