

t23_modelc_3 (TMUVAp-
tjUDmsM6fHz87bEi1LFEm6xWH1hh2)

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 $v1_modelc_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_modelc_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k21_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $u2_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_modelc_3 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k13_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k18_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_int_1 : \iota \Rightarrow \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ \forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k13_modelc_2 X0))) \Rightarrow \\ (r1_xxreal_0 k6_numbers (k18_modelc_3 X0 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ k18_modelc_3 X0 (k7_modelc_3 X0) = k6_numbers) \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

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.

$$(v1_xboole_0 (k1_int_1 k6_numbers)) \wedge (v1_int_1 (k1_int_1 k6_numbers)) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & \forall X1.((v1_modelc_3 X1 X0) \wedge (l1_modelc_3 X1 X0)) \Rightarrow (k21_modelc_3 \\ & X0 X1 = k1_int_1 (k18_modelc_3 X0 (u2_modelc_3 X0 X1)))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & k7_modelc_3 X0 = k1_xboole_0) \end{aligned} \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & \forall X1.((v1_modelc_3 X1 X0) \wedge (l1_modelc_3 X1 X0)) \Rightarrow (\neg(\neg r1_xxreal_0 \\ & (k21_modelc_3 X0 X1) k6_numbers) \wedge (u2_modelc_3 X0 X1 = k7_modelc_3 \\ & X0))) \end{aligned}$$