

t53_modelc_3

(TMapQ3Zidp98cnZvyMzofodHgv2sxxv9yNmK)

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Let $v7_ordinal1 : \iota \Rightarrow o$ 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 $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k23_modelc_3 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_modelc_2 : \iota \Rightarrow o$ be given. Let $u1_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r6_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k11_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k7_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & (v7_modelc_2 X0) \Rightarrow (X0 = k7_modelc_2 (k11_modelc_2 X0) (k12_modelc_2 \\ & X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.((v1_modelc_2\ X1) \wedge (\\
& \quad m2_finseq_1\ X1\ k5_numbers)) \Rightarrow (\forall X2.((v1_modelc_2\ X2) \wedge (\\
& \quad m2_finseq_1\ X2\ k5_numbers)) \Rightarrow (\forall X3.((v1_modelc_2\ X3) \wedge (\\
& \quad m2_finseq_1\ X3\ k5_numbers)) \Rightarrow (\forall X4.((v1_funct_1\ X4) \wedge (\\
& \quad v1_funct_2\ X4\ k5_numbers\ (k23_modelc_3\ X3)) \wedge (m1_subset_1\ X4\ (\\
& \quad k1_zfmisc_1\ (k2_zfmisc_1\ k5_numbers\ (k23_modelc_3\ X3)))))) \Rightarrow \\
& ((k7_modelc_2\ X1\ X2 \in u1_modelc_3\ X3\ (k10_modelc_3\ (k3_funct_2 \\
& \quad k5_numbers\ (k23_modelc_3\ X3)\ X4\ np_1)\ X3)) \wedge ((\forall X5.(v7_ordinal1 \\
& \quad X5) \Rightarrow (r6_modelc_3\ X3\ (k10_modelc_3\ (k1_funct_1\ X4\ X5)\ X3)\ (k10_modelc_3 \\
& \quad (k3_funct_2\ k5_numbers\ (k23_modelc_3\ X3)\ X4\ (k1_nat_1\ X5\ np_1)) \\
& \quad X3))) \wedge (\forall X5.(v7_ordinal1\ X5) \Rightarrow (\neg(r1_xxreal_0\ np_1\ X5) \wedge \\
& \quad ((\neg r1_xxreal_0\ X0\ X5) \wedge (X2 \in u1_modelc_3\ X3\ (k10_modelc_3\ (k1_funct_1 \\
& \quad X4\ X5)\ X3)))))) \Rightarrow (\forall X5.(v7_ordinal1\ X5) \Rightarrow ((r1_xxreal_0 \\
& \quad np_1\ X5) \Rightarrow ((r1_xxreal_0\ X0\ X5) \vee ((X1 \in u1_modelc_3\ X3\ (k10_modelc_3 \\
& \quad (k1_funct_1\ X4\ X5)\ X3)) \wedge (k7_modelc_2\ X1\ X2 \in u1_modelc_3\ X3\ (k10_modelc_3 \\
& \quad (k1_funct_1\ X4\ X5)\ X3))))))))))
\end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_modelc_2\ X0) \wedge (m1_finseq_1\ X0\ k5_numbers)) \Rightarrow (\\
& (v1_modelc_2\ (k12_modelc_2\ X0)) \wedge (m2_finseq_1\ (k12_modelc_2 \\
& \quad X0)\ k5_numbers))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_modelc_2\ X0) \wedge (m1_finseq_1\ X0\ k5_numbers)) \Rightarrow (\\
& (v1_modelc_2\ (k11_modelc_2\ X0)) \wedge (m2_finseq_1\ (k11_modelc_2 \\
& \quad X0)\ k5_numbers))
\end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.((v1_modelc_2\ X1) \wedge (\\
& \quad m2_finseq_1\ X1\ k5_numbers)) \Rightarrow (\forall X2.((v1_modelc_2\ X2) \wedge (\\
& \quad m2_finseq_1\ X2\ k5_numbers)) \Rightarrow (\forall X3.((v1_funct_1\ X3) \wedge (\\
& \quad v1_funct_2\ X3\ k5_numbers\ (k23_modelc_3\ X2)) \wedge (m1_subset_1\ X3\ (\\
& \quad k1_zfmisc_1\ (k2_zfmisc_1\ k5_numbers\ (k23_modelc_3\ X2)))))) \Rightarrow \\
& (((v7_modelc_2\ X1) \wedge ((X1 \in u1_modelc_3\ X2\ (k10_modelc_3\ (k3_funct_2 \\
& \quad k5_numbers\ (k23_modelc_3\ X2)\ X3\ np_1)\ X2)) \wedge ((\forall X4.(v7_ordinal1 \\
& \quad X4) \Rightarrow (r6_modelc_3\ X2\ (k10_modelc_3\ (k1_funct_1\ X3\ X4)\ X2)\ (k10_modelc_3 \\
& \quad (k3_funct_2\ k5_numbers\ (k23_modelc_3\ X2)\ X3\ (k1_nat_1\ X4\ np_1)) \\
& \quad X2))) \wedge (\forall X4.(v7_ordinal1\ X4) \Rightarrow (\neg(r1_xxreal_0\ np_1\ X4) \wedge \\
& \quad ((\neg r1_xxreal_0\ X0\ X4) \wedge (k12_modelc_2\ X1 \in u1_modelc_3\ X2\ (k10_modelc_3 \\
& \quad (k1_funct_1\ X3\ X4)\ X2)))))) \Rightarrow (\forall X4.(v7_ordinal1\ X4) \Rightarrow (\\
& \quad (r1_xxreal_0\ np_1\ X4) \Rightarrow ((r1_xxreal_0\ X0\ X4) \vee ((k11_modelc_2\ X1 \in \\
& \quad u1_modelc_3\ X2\ (k10_modelc_3\ (k1_funct_1\ X3\ X4)\ X2)) \wedge (X1 \in u1_modelc_3 \\
& \quad X2\ (k10_modelc_3\ (k1_funct_1\ X3\ X4)\ X2))))))
\end{aligned}$$