

t9_modelc_2 (TMKSLYu-
rUZvA3rehMGwJjqvQdHA3H3cYcfk)

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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 $v8_modelc_2 : \iota \Rightarrow o$ be given. Let $k8_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k12_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v2_modelc_2 : \iota \Rightarrow o$ be given. Let $v3_modelc_2 : \iota \Rightarrow o$ be given. Let $v4_modelc_2 : \iota \Rightarrow o$ be given. Let $v5_modelc_2 : \iota \Rightarrow o$ be given. Let $v6_modelc_2 : \iota \Rightarrow o$ be given. Let $v7_modelc_2 : \iota \Rightarrow o$ be given. Let $k4_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$k5_numbers = k4_ordinal1 \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v8_modelc_2 X0) \Rightarrow ((\neg v2_modelc_2 X0) \wedge ((\neg v3_modelc_2 X0) \wedge ((\neg \\ v4_modelc_2 X0) \wedge ((\neg v5_modelc_2 X0) \wedge ((\neg v6_modelc_2 X0) \wedge (\neg v7_modelc_2 \\ X0)))))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (\neg(\neg v4_modelc_2 X0) \wedge ((\neg v5_modelc_2 X0) \wedge ((\neg v7_modelc_2 X0) \wedge \\ (\neg v8_modelc_2 X0)))) \Rightarrow (\forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 \\ X1 k5_numbers)) \Rightarrow (((v4_modelc_2 X0) \Rightarrow ((X1 = k12_modelc_2 X0) \Leftrightarrow (\\ \exists X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (\\ k4_modelc_2 X2 X1 = X0)))) \wedge (((v5_modelc_2 X0) \Rightarrow ((X1 = k12_modelc_2 \\ X0) \Leftrightarrow (\exists X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\ (k5_modelc_2 X2 X1 = X0)))) \wedge (((v7_modelc_2 X0) \Rightarrow ((X1 = k12_modelc_2 \\ X0) \Leftrightarrow (\exists X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\ (k7_modelc_2 X2 X1 = X0)))) \wedge (\neg(\neg v4_modelc_2 X0) \wedge ((\neg v5_modelc_2 \\ X0) \wedge ((\neg v7_modelc_2 X0) \wedge (\neg(X1 = k12_modelc_2 X0) \Leftrightarrow (\exists X2. \\ ((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (k8_modelc_2 \\ X2 X1 = X0)))))))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\
& (\neg(\neg v4_modelc_2 X0) \wedge (\neg v5_modelc_2 X0) \wedge (\neg v7_modelc_2 X0) \wedge \\
& (\neg v8_modelc_2 X0))) \Rightarrow (\forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 \\
& X1 k5_numbers)) \Rightarrow (((v4_modelc_2 X0) \Rightarrow ((X1 = k11_modelc_2 X0) \Leftrightarrow (\\
& \exists X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (\\
& k4_modelc_2 X1 X2 = X0)))) \wedge ((v5_modelc_2 X0) \Rightarrow ((X1 = k11_modelc_2 \\
& X0) \Leftrightarrow (\exists X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\
& (k5_modelc_2 X1 X2 = X0)))) \wedge ((v7_modelc_2 X0) \Rightarrow ((X1 = k11_modelc_2 \\
& X0) \Leftrightarrow (\exists X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\
& (k7_modelc_2 X1 X2 = X0)))) \wedge (\neg(\neg v4_modelc_2 X0) \wedge (\neg v5_modelc_2 \\
& X0) \wedge (\neg v7_modelc_2 X0) \wedge (\neg(X1 = k11_modelc_2 X0) \Leftrightarrow (\exists X2. \\
& ((v1_modelc_2 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (k8_modelc_2 \\
& X1 X2 = X0)))))))))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\
& (v8_modelc_2 X0) \Leftrightarrow (\exists X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 \\
& X1 k5_numbers)) \wedge (\exists X2.((v1_modelc_2 X2) \wedge (m2_finseq_1 \\
& X2 k5_numbers)) \wedge (X0 = k8_modelc_2 X1 X2)))
\end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\
& (v8_modelc_2 X0) \Rightarrow (X0 = k8_modelc_2 (k11_modelc_2 X0) (k12_modelc_2 \\
& X0)))
\end{aligned}$$