

t20_modelc_2
(TMXyvvrzmuk5xpk8hupd6bgmZ54FSGEBFwfZ)

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 $v3_modelc_2 : \iota \Rightarrow o$ be given. Let $r1_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k3_modelc_2 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6_modelc_2 : \iota \Rightarrow o$ be given. Let $k6_modelc_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ \forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\\ (r1_modelc_2 X0 (k3_modelc_2 X1)) \Leftrightarrow (X0 = X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m1_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v1_modelc_2 (k10_modelc_2 X0)) \wedge (m2_finseq_1 (k10_modelc_2 \\ X0) k5_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ ((v3_modelc_2 X0) \vee (v6_modelc_2 X0)) \Rightarrow (\forall X1.((v1_modelc_2 \\ X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (((v3_modelc_2 X0) \Rightarrow ((X1 = k10_modelc_2 \\ X0) \Leftrightarrow (k3_modelc_2 X1 = X0))) \wedge ((\neg v3_modelc_2 X0) \Rightarrow ((X1 = k10_modelc_2 \\ X0) \Leftrightarrow (k6_modelc_2 X1 = X0)))))) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ \forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\\ (v3_modelc_2 X0) \Rightarrow ((r1_modelc_2 X1 X0) \Leftrightarrow (X1 = k10_modelc_2 X0)))) \end{aligned}$$