

t64_modelc_3

(TMcSmt46Dzjdmwz1DRciqgDSiuMb4jVD1vH)

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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 $v6_modelc_3 : \iota \Rightarrow o$ be given. Let $v2_modelc_2 : \iota \Rightarrow o$ be given. Let $v3_modelc_2 : \iota \Rightarrow o$ be given. Let $k10_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k3_modelc_2 : \iota \Rightarrow \iota$ be given. Let $v6_modelc_2 : \iota \Rightarrow o$ be given. Let $k6_modelc_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & (v6_modelc_3 X0) \Leftrightarrow (\neg(\neg v2_modelc_2 X0) \wedge (\forall X1.((v1_modelc_2 \\ & X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\neg(v2_modelc_2 X1) \wedge (X0 = k3_modelc_2 \\ & X1)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & ((v3_modelc_2 X0) \vee (v6_modelc_2 X0)) \Rightarrow (\forall X1.((v1_modelc_2 \\ & X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (((v3_modelc_2 X0) \Rightarrow ((X1 = k10_modelc_2 \\ & X0) \Leftrightarrow (k3_modelc_2 X1 = X0))) \wedge ((\neg v3_modelc_2 X0) \Rightarrow ((X1 = k10_modelc_2 \\ & X0) \Leftrightarrow (k6_modelc_2 X1 = X0)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & (v3_modelc_2 X0) \Leftrightarrow (\exists X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 \\ & X1 k5_numbers)) \wedge (X0 = k3_modelc_2 X1))) \end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & (v6_modelc_3 X0) \Leftrightarrow ((v2_modelc_2 X0) \vee ((v3_modelc_2 X0) \wedge (v2_modelc_2 \\ & (k10_modelc_2 X0)))) \end{aligned}$$