

t63_modelc.3

(TMSD4P3utW1yXti2LABJSYQsTx6mjYTKsq7)

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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 $v5_modelc.3 : \iota \Rightarrow o$ be given. Let $r2_modelc.2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_modelc.2 : \iota \Rightarrow o$ be given. Let $v2_modelc.2 : \iota \Rightarrow o$ be given. Let $k10_modelc.2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc.2 X0) \wedge (m2_finseq.1 X0 k5_numbers)) \Rightarrow (\\ & \forall X1.((v1_modelc.2 X1) \wedge (m2_finseq.1 X1 k5_numbers)) \Rightarrow (\\ & \forall X2.((v1_modelc.2 X2) \wedge (m2_finseq.1 X2 k5_numbers)) \Rightarrow (\\ & ((r2_modelc.2 X0 X1) \wedge (r2_modelc.2 X1 X2)) \Rightarrow (r2_modelc.2 X0 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc.2 X0) \wedge (m2_finseq.1 X0 k5_numbers)) \Rightarrow (\\ & (v5_modelc.3 X0) \Leftrightarrow (\forall X1.((v1_modelc.2 X1) \wedge (m2_finseq.1 \\ & X1 k5_numbers)) \Rightarrow (((r2_modelc.2 X1 X0) \wedge (v3_modelc.2 X1)) \Rightarrow (v2_modelc.2 \\ & (k10_modelc.2 X1)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_modelc.2 X0) \wedge (m2_finseq.1 X0 k5_numbers)) \Rightarrow (\\ & \forall X1.((v1_modelc.2 X1) \wedge (m2_finseq.1 X1 k5_numbers)) \Rightarrow (\\ & ((v5_modelc.3 X0) \wedge (r2_modelc.2 X1 X0)) \Rightarrow (v5_modelc.3 X1))) \end{aligned}$$