

t30_modelc_2

(TMQmsgW7eQbhvdecLdg52PEDoYUJQRKUd8t)

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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 $v3_modelc_2 : \iota \Rightarrow o$ be given. Let $v6_modelc_2 : \iota \Rightarrow o$ be given. Let $r2_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_modelc_2 : \iota \Rightarrow \iota$ be given. Let $r1_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow & \\ \forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow & (1) \\ (r1_modelc_2 X0 X1) \Rightarrow (r3_modelc_2 X0 X1) & \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow & \\ \forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow & \\ (v6_modelc_2 X0) \Rightarrow ((r1_modelc_2 X1 X0) \Leftrightarrow (X1 = k10_modelc_2 X0)) & (2) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow & \\ \forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow & \\ (v3_modelc_2 X0) \Rightarrow ((r1_modelc_2 X1 X0) \Leftrightarrow (X1 = k10_modelc_2 X0)) & (3) \end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m1_finseq_1 X0 k5_numbers)) \Rightarrow & \\ (v1_modelc_2 (k10_modelc_2 X0)) \wedge (m2_finseq_1 (k10_modelc_2 & (5) \\ X0) k5_numbers) & \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow & \\ \forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow & (6) \\ (r3_modelc_2 X0 X1) \Leftrightarrow ((r2_modelc_2 X0 X1) \wedge (X0 \neq X1)) & \end{aligned}$$

Theorem 1

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v3_modelc_2 X0) \vee (v6_modelc_2 X0)) \Rightarrow (r2_modelc_2 (k10_modelc_2 X0) X0)$$