

l46_modelc_1

(TMaubZ93Sy4ChzVBwEaVZpfBngCGPSaRVYS)

October 27, 2020

Let $v1_modelc_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v7_modelc_1 : \iota \Rightarrow o$ be given. Let $k11_modelc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_modelc_1 : \iota \Rightarrow \iota$ be given. Let $k16_modelc_1 : \iota \Rightarrow \iota$ be given. Let $v4_modelc_1 : \iota \Rightarrow o$ be given. Let $v2_modelc_1 : \iota \Rightarrow o$ be given. Let $v3_modelc_1 : \iota \Rightarrow o$ be given. Let $v5_modelc_1 : \iota \Rightarrow o$ be given. Let $v6_modelc_1 : \iota \Rightarrow o$ be given. Let $k8_modelc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v4_modelc_1 X0) \Rightarrow ((\neg v2_modelc_1 X0) \wedge ((\neg v3_modelc_1 X0) \wedge ((\neg v5_modelc_1 X0) \wedge ((\neg v6_modelc_1 X0) \wedge (\neg v7_modelc_1 X0)))))) \quad (1)$$

Assume the following.

$$\forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (((v4_modelc_1 X0) \vee (v7_modelc_1 X0)) \Rightarrow (\forall X1.((v1_modelc_1 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (((v4_modelc_1 X0) \Rightarrow ((X1 = k16_modelc_1 X0) \Leftrightarrow (\exists X2.((v1_modelc_1 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (k8_modelc_1 X2 X1 = X0)))))) \wedge ((\neg v4_modelc_1 X0) \Rightarrow ((X1 = k16_modelc_1 X0) \Leftrightarrow (\exists X2.((v1_modelc_1 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (k11_modelc_1 X2 X1 = X0)))))) \quad (2)$$

Assume the following.

$$\forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (((v4_modelc_1 X0) \vee (v7_modelc_1 X0)) \Rightarrow (\forall X1.((v1_modelc_1 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (((v4_modelc_1 X0) \Rightarrow ((X1 = k15_modelc_1 X0) \Leftrightarrow (\exists X2.((v1_modelc_1 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (k8_modelc_1 X1 X2 = X0)))))) \wedge ((\neg v4_modelc_1 X0) \Rightarrow ((X1 = k15_modelc_1 X0) \Leftrightarrow (\exists X2.((v1_modelc_1 X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (k11_modelc_1 X1 X2 = X0)))))) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow & \\ (v7_modelc_1 X0) \Leftrightarrow (\exists X1.((v1_modelc_1 X1) \wedge (m2_finseq_1 & \\ X1 k5_numbers)) \wedge (\exists X2.((v1_modelc_1 X2) \wedge (m2_finseq_1 & \\ X2 k5_numbers)) \wedge (X0 = k11_modelc_1 X1 X2))) & \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow & \\ (v7_modelc_1 X0) \Rightarrow (X0 = k11_modelc_1 (k15_modelc_1 X0) (k16_modelc_1 & \\ X0)) & \end{aligned}$$