

t5_modelc_2
(TMbuaiidDm3BToscY6KQfZQ3vkAvq7d8gtJ)

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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 $v6_modelc_2 : \iota \Rightarrow o$ be given. Let $k6_modelc_2 : \iota \Rightarrow \iota$ be given. Let $k10_modelc_2 : \iota \Rightarrow \iota$ be given. Let $v3_modelc_2 : \iota \Rightarrow o$ be given. Let $v2_modelc_2 : \iota \Rightarrow o$ be given. Let $v4_modelc_2 : \iota \Rightarrow o$ be given. Let $v5_modelc_2 : \iota \Rightarrow o$ be given. Let $v7_modelc_2 : \iota \Rightarrow o$ be given. Let $v8_modelc_2 : \iota \Rightarrow o$ be given. Let $k3_modelc_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v3_modelc_2 X0) \Rightarrow ((\neg v2_modelc_2 X0) \wedge ((\neg v4_modelc_2 X0) \wedge ((\neg v5_modelc_2 X0) \wedge ((\neg v6_modelc_2 X0) \wedge ((\neg v7_modelc_2 X0) \wedge (\neg v8_modelc_2 X0)))))))) \quad (1)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v3_modelc_2 X0) \vee (v6_modelc_2 X0)) \Rightarrow (\forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (((v3_modelc_2 X0) \Rightarrow ((X1 = k10_modelc_2 X0) \Leftrightarrow (k3_modelc_2 X1 = X0))) \wedge ((\neg v3_modelc_2 X0) \Rightarrow ((X1 = k10_modelc_2 X0) \Leftrightarrow (k6_modelc_2 X1 = X0))))) \quad (2)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v6_modelc_2 X0) \Leftrightarrow (\exists X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \wedge (X0 = k6_modelc_2 X1))) \quad (3)$$

Theorem 1

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v6_modelc_2 X0) \Rightarrow (X0 = k6_modelc_2 (k10_modelc_2 X0)))$$