

l38_modelc_2 (TMPqH- pHvT4jkFyt9qawkjYW6U4C4LawmEKi)

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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 $v5_modelc_2 : \iota \Rightarrow o$ be given. Let $v2_modelc_2 : \iota \Rightarrow o$ be given. Let $v3_modelc_2 : \iota \Rightarrow o$ be given. Let $v4_modelc_2 : \iota \Rightarrow o$ be given. Let $v6_modelc_2 : \iota \Rightarrow o$ be given. Let $v7_modelc_2 : \iota \Rightarrow o$ be given. Let $v8_modelc_2 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_3 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_5 : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v4_modelc_2 X0) \Rightarrow ((\neg v2_modelc_2 X0) \wedge ((\neg v3_modelc_2 X0) \wedge ((\neg \\ v5_modelc_2 X0) \wedge ((\neg v6_modelc_2 X0) \wedge ((\neg v7_modelc_2 X0) \wedge (\neg v8_modelc_2 \\ X0))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v3_modelc_2 X0) \Rightarrow ((\neg v2_modelc_2 X0) \wedge ((\neg v4_modelc_2 X0) \wedge ((\neg \\ v5_modelc_2 X0) \wedge ((\neg v6_modelc_2 X0) \wedge ((\neg v7_modelc_2 X0) \wedge (\neg v8_modelc_2 \\ X0))))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v2_modelc_2 X0) \Rightarrow ((k1_funct_1 X0 np_1 \neq k6_numbers) \wedge ((k1_funct_1 \\ X0 np_1 \neq np_1) \wedge ((k1_funct_1 X0 np_1 \neq np_2) \wedge ((k1_funct_1 X0 \\ np_1 \neq np_3) \wedge ((k1_funct_1 X0 np_1 \neq np_4) \wedge (k1_funct_1 X0 np_1 \neq \\ np_5))))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v8_modelc_2 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_5)) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ (v7_modelc_2 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_4)) \end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v6_modelc_2 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_3) \quad (6)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v5_modelc_2 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_2) \quad (7)$$

Theorem 1

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