

l39_modelc_2

(TMSH7nBaLJnZbr4xR34GFCEAGzpXREPaXBr)

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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 $v2_modelc_2 : \iota \Rightarrow o$ be given. Let $v3_modelc_2 : \iota \Rightarrow o$ be given. Let $v4_modelc_2 : \iota \Rightarrow o$ be given. Let $v5_modelc_2 : \iota \Rightarrow o$ be given. Let $v7_modelc_2 : \iota \Rightarrow o$ be given. Let $v8_modelc_2 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

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

Assume the following.

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

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v3_modelc_2 X0) \Rightarrow ((\neg v2_modelc_2 X0) \wedge ((\neg v4_modelc_2 X0) \wedge ((\neg v5_modelc_2 X0) \wedge ((\neg v6_modelc_2 X0) \wedge ((\neg v7_modelc_2 X0) \wedge (\neg v8_modelc_2 X0)))))))) \tag{3}$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v2_modelc_2 X0) \Rightarrow ((k1_funct_1 X0 np_1 \neq k6_numbers) \wedge ((k1_funct_1 X0 np_1 \neq np_1) \wedge ((k1_funct_1 X0 np_1 \neq np_2) \wedge ((k1_funct_1 X0 np_1 \neq np_3) \wedge ((k1_funct_1 X0 np_1 \neq np_4) \wedge (k1_funct_1 X0 np_1 \neq np_5)))))))) \tag{4}$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v8_modelc_2 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_5) \quad (5)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v7_modelc_2 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_4) \quad (6)$$

Assume the following.

$$\forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v6_modelc_2 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_3) \quad (7)$$

Theorem 1

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