

l37_modelc_1
(TMR4B1aFqCxtkxyRq2VsuZUfnoyPB8cztYE)

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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 $v3_modelc_1 : \iota \Rightarrow o$ be given. Let $v2_modelc_1 : \iota \Rightarrow o$ be given. Let $v4_modelc_1 : \iota \Rightarrow o$ be given. Let $v5_modelc_1 : \iota \Rightarrow o$ be given. Let $v6_modelc_1 : \iota \Rightarrow o$ be given. Let $v7_modelc_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $np_4 : \iota$ be given. Let $np_3 : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\neg v1_xboole_0 \ np_4 \tag{1}$$

Assume the following.

$$\neg v1_xboole_0 \ np_3 \tag{2}$$

Assume the following.

$$\neg v1_xboole_0 \ np_2 \tag{3}$$

Assume the following.

$$\neg v1_xboole_0 \ np_1 \tag{4}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{5}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_modelc_1 \ X0) \wedge (m2_finseq_1 \ X0 \ k5_numbers)) \Rightarrow (\\ (v2_modelc_1 \ X0) \Rightarrow ((k1_funct_1 \ X0 \ np_1 \neq k6_numbers) \wedge ((k1_funct_1 \\ X0 \ np_1 \neq np_1) \wedge ((k1_funct_1 \ X0 \ np_1 \neq np_2) \wedge ((k1_funct_1 \ X0 \\ np_1 \neq np_3) \wedge (k1_funct_1 \ X0 \ np_1 \neq np_4)))))) \end{aligned} \tag{6}$$

Assume the following.

$$\forall X0.((v1_modelc_1 \ X0) \wedge (m2_finseq_1 \ X0 \ k5_numbers)) \Rightarrow (\\ (v7_modelc_1 \ X0) \Rightarrow (k1_funct_1 \ X0 \ np_1 = np_4)) \tag{7}$$

Assume the following.

$$\forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v6_modelc_1 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_3) \quad (8)$$

Assume the following.

$$\forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v5_modelc_1 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_2) \quad (9)$$

Assume the following.

$$\forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v4_modelc_1 X0) \Rightarrow (k1_funct_1 X0 np_1 = np_1) \quad (10)$$

Assume the following.

$$\forall X0.((v1_modelc_1 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (v3_modelc_1 X0) \Rightarrow (k1_funct_1 X0 np_1 = k6_numbers) \quad (11)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (12)$$

Theorem 1

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