

t19_modelc_2 (TMN- buU2YGF4VcYKw1rmgrdyvPsy9QW6o9GP)

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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 $v2_modelc_2 : \iota \Rightarrow o$ be given. Let $r1_modelc_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_modelc_2 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k6_modelc_2 : \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $k7_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $k8_modelc_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_5 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & \quad \forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\\ & \quad (k1_funct_1 (k3_modelc_2 X0) np_1 = k6_numbers) \wedge ((k1_funct_1 \\ & \quad (k4_modelc_2 X0 X1) np_1 = np_1) \wedge ((k1_funct_1 (k5_modelc_2 X0 \\ & \quad X1) np_1 = np_2) \wedge ((k1_funct_1 (k6_modelc_2 X0) np_1 = np_3) \wedge \\ & \quad ((k1_funct_1 (k7_modelc_2 X0 X1) np_1 = np_4) \wedge (k1_funct_1 (k8_modelc_2 \\ & \quad X0 X1) np_1 = np_5)))))) \end{aligned} \tag{1}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{2}$$

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.

$$\begin{aligned}
& \forall X0.((v1_modelc_2 \ X0) \wedge (m2_finseq_1 \ X0 \ k5_numbers)) \Rightarrow (\\
& \quad \forall X1.((v1_modelc_2 \ X1) \wedge (m2_finseq_1 \ X1 \ k5_numbers)) \Rightarrow (\\
& \quad (r1_modelc_2 \ X0 \ X1) \Leftrightarrow (\neg (X1 \neq k3_modelc_2 \ X0) \wedge ((X1 \neq k6_modelc_2 \\
& \quad X0) \wedge (\forall X2.((v1_modelc_2 \ X2) \wedge (m2_finseq_1 \ X2 \ k5_numbers)) \Rightarrow \\
& \quad ((X1 \neq k4_modelc_2 \ X0 \ X2) \wedge ((X1 \neq k4_modelc_2 \ X2 \ X0) \wedge ((X1 \neq k5_modelc_2 \\
& \quad X0 \ X2) \wedge ((X1 \neq k5_modelc_2 \ X2 \ X0) \wedge ((X1 \neq k7_modelc_2 \ X0 \ X2) \wedge ((X1 \neq \\
& \quad k7_modelc_2 \ X2 \ X0) \wedge ((X1 \neq k8_modelc_2 \ X0 \ X2) \wedge (X1 \neq k8_modelc_2 \ X2 \\
& \quad X0))))))))))))) \\
& \hspace{20em} (4)
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v1_modelc_2 \ X0) \wedge (m2_finseq_1 \ X0 \ k5_numbers)) \Rightarrow (\\
& \quad \forall X1.((v1_modelc_2 \ X1) \wedge (m2_finseq_1 \ X1 \ k5_numbers)) \Rightarrow (\\
& \quad \neg (v2_modelc_2 \ X0) \wedge (r1_modelc_2 \ X1 \ X0))
\end{aligned}$$