

t32_modelc_3 (TMKspaT-
mDYdb81kimhTw4C86wHTfz44C6me)

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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 $v1_modelc_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_modelc_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $u2_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k6_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_modelc_3 : \iota \Rightarrow \iota$ be given. Let $k3_modelc_3 : \iota \Rightarrow \iota$ be given. Let $u3_modelc_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_modelc_3 : \iota \Rightarrow \iota$ be given. Let $k4_modelc_3 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (X0 \in k2_xboole_0 X2 (k1_tarski X1)) \Leftrightarrow ((X0 \in X2) \vee (X0 = X1)) \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\ & \quad \forall X1. (l1_modelc_3 X1 X0) \Rightarrow (\forall X2. (l1_modelc_3 X2 X0) \Rightarrow \\ & \quad (\forall X3. ((v1_modelc_2 X3) \wedge (m2_finseq_1 X3 k5_numbers)) \Rightarrow \\ & ((r1_modelc_3 X0 X1 X2 X3) \Leftrightarrow ((X3 \in u2_modelc_3 X0 X1) \wedge ((X2 = k5_modelc_3 \\ & \quad X0 X1 X3) \vee ((\neg(\neg v5_modelc_2 X3) \wedge (\neg v7_modelc_2 X3) \wedge (\neg v8_modelc_2 \\ & \quad X3)))) \wedge (X2 = k6_modelc_3 X0 X1 X3)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\
& \quad \forall X1.(l1_modelc_3 X1 X0) \Rightarrow (\forall X2.((v1_modelc_2 X2) \wedge \\
& \quad (m2_finseq_1 X2 k5_numbers)) \Rightarrow ((X2 \in u2_modelc_3 X0 X1) \Rightarrow (\forall X3. \\
& \quad ((v1_modelc_3 X3 X0) \wedge (l1_modelc_3 X3 X0)) \Rightarrow ((X3 = k6_modelc_3 X0 \\
& \quad X1 X2) \Leftrightarrow ((u1_modelc_3 X0 X3 = k2_xboole_0 (u1_modelc_3 X0 X1) (k1_tarSKI \\
& \quad X2)) \wedge ((u2_modelc_3 X0 X3 = k2_xboole_0 (k7_subset_1 (k1_modelc_3 \\
& \quad X0) (u2_modelc_3 X0 X1) (k1_tarSKI X2)) (k7_subset_1 (k1_modelc_3 \\
& \quad X2) (k3_modelc_3 X2) (u1_modelc_3 X0 X1))) \wedge (u3_modelc_3 X0 X3 = \\
& \quad u3_modelc_3 X0 X1))))))))) \\
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\
& \quad \forall X1.(l1_modelc_3 X1 X0) \Rightarrow (\forall X2.((v1_modelc_2 X2) \wedge \\
& \quad (m2_finseq_1 X2 k5_numbers)) \Rightarrow ((X2 \in u2_modelc_3 X0 X1) \Rightarrow (\forall X3. \\
& \quad ((v1_modelc_3 X3 X0) \wedge (l1_modelc_3 X3 X0)) \Rightarrow ((X3 = k5_modelc_3 X0 \\
& \quad X1 X2) \Leftrightarrow ((u1_modelc_3 X0 X3 = k2_xboole_0 (u1_modelc_3 X0 X1) (k1_tarSKI \\
& \quad X2)) \wedge ((u2_modelc_3 X0 X3 = k2_xboole_0 (k7_subset_1 (k1_modelc_3 \\
& \quad X0) (u2_modelc_3 X0 X1) (k1_tarSKI X2)) (k7_subset_1 (k1_modelc_3 \\
& \quad X2) (k2_modelc_3 X2) (u1_modelc_3 X0 X1))) \wedge (u3_modelc_3 X0 X3 = \\
& \quad k2_xboole_0 (u3_modelc_3 X0 X1) (k4_modelc_3 X2))))))))) \\
\end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v1_modelc_2 X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\\
& \quad \forall X1.((v1_modelc_2 X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\\
& \quad \quad \forall X2.((v1_modelc_3 X2 X1) \wedge (l1_modelc_3 X2 X1)) \Rightarrow (\forall X3. \\
& \quad ((v1_modelc_3 X3 X1) \wedge (l1_modelc_3 X3 X1)) \Rightarrow ((r1_modelc_3 X1 X3 \\
& \quad X2 X0) \Rightarrow (X0 \in u1_modelc_3 X1 X2))))))
\end{aligned}$$