

t82_scmyciel (TMG-
wAjq7BUhqDsTTFK4hSjD7JNgnf2c8WBM)

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Let $v4_scmyciel : \iota \Rightarrow o$ be given. Let $v11_scmyciel : \iota \Rightarrow o$ be given. Let $k10_scmyciel : \iota \Rightarrow \iota$ be given. Let $k9_scmyciel : \iota \Rightarrow \iota$ be given. Let $k6_scmyciel : \iota \Rightarrow \iota$ be given. Let $v10_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_eqrel_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $v7_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v8_scmyciel : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.((v10_scmyciel X1 X0) \wedge \\ (m1_eqrel_1 X1 (k3_tarski X0))) \Rightarrow ((v7_scmyciel X1 (k6_scmyciel \\ X0)) \wedge (m1_eqrel_1 X1 (k3_tarski (k6_scmyciel X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.((v7_scmyciel X1 (k6_scmyciel \\ X0)) \wedge (m1_eqrel_1 X1 (k3_tarski (k6_scmyciel X0)))) \Rightarrow ((v10_scmyciel \\ X1 X0) \wedge (m1_eqrel_1 X1 (k3_tarski X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.((v4_scmyciel X0) \wedge (v11_scmyciel X0)) \Rightarrow ((v4_scmyciel \\ (k6_scmyciel X0)) \wedge (v8_scmyciel (k6_scmyciel X0))) \quad (3)$$

Assume the following.

$$\forall X0.(v4_scmyciel X0) \Rightarrow (v4_scmyciel (k6_scmyciel X0)) \quad (4)$$

Assume the following.

$$\forall X0.((v4_scmyciel X0) \wedge (v11_scmyciel X0)) \Rightarrow (v7_ordinal1 \\ (k10_scmyciel X0)) \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v4_scmyciel X0) \wedge (v11_scmyciel X0)) \Rightarrow (\forall X1. \\
& (v7_ordinal1 X1) \Rightarrow ((X1 = k10_scmyciel X0) \Leftrightarrow ((\exists X2.((v1_finset_1 \\
& X2) \wedge ((v10_scmyciel X2 X0) \wedge (m1_eqrel_1 X2 (k3_tarski X0)))) \wedge (\\
& k5_card_1 X2 = X1)) \wedge (\forall X2.((v1_finset_1 X2) \wedge ((v10_scmyciel \\
& X2 X0) \wedge (m1_eqrel_1 X2 (k3_tarski X0)))) \Rightarrow (r1_xreal_0 X1 (k5_card_1 \\
& X2))))))
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v4_scmyciel X0) \wedge (v8_scmyciel X0)) \Rightarrow (\forall X1. \\
& (v7_ordinal1 X1) \Rightarrow ((X1 = k9_scmyciel X0) \Leftrightarrow ((\exists X2.((v1_finset_1 \\
& X2) \wedge ((v7_scmyciel X2 X0) \wedge (m1_eqrel_1 X2 (k3_tarski X0)))) \wedge (k5_card_1 \\
& X2 = X1)) \wedge (\forall X2.((v1_finset_1 X2) \wedge ((v7_scmyciel X2 X0) \wedge \\
& (m1_eqrel_1 X2 (k3_tarski X0)))) \Rightarrow (r1_xreal_0 X1 (k5_card_1 X2))))))
\end{aligned} \tag{7}$$

Theorem 1

$$\forall X0.((v4_scmyciel X0) \wedge (v11_scmyciel X0)) \Rightarrow (k10_scmyciel X0 = k9_scmyciel (k6_scmyciel X0))$$