

t45_scmyciel
(TMGcHtG3Z5HNP7YeXqpb4n631J82UMHy4vv)

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Let $v4_scmyciel : \iota \Rightarrow o$ be given. Let $k3_tarSKI : \iota \Rightarrow \iota$ be given. Let $k7_scmyciel : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.k7_scmyciel X0 X1 = k7_scmyciel X0 (k3_xboole_0 X1 (k3_tarSKI X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.((X2 \in X1) \wedge (X2 \in k3_tarSKI X0)) \Rightarrow (X2 \in k3_tarSKI (k7_scmyciel X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.(X2 \in k3_tarSKI (k7_scmyciel X0 X1)) \Rightarrow (X2 \in X1)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k3_xboole_0 X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (X3 \in X1))) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.k3_xboole_0 X0 X1 = k3_xboole_0 X1 X0 \quad (5)$$

Theorem 1

$$\forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.k3_tarSKI (k7_scmyciel X0 X1) = k3_xboole_0 (k3_tarSKI X0) X1)$$