

t67_cohsp_1
(TMGh9vPdX7sy24P1gK9dWgjBrWwwGihJ3fJ)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Let $v1_coh_sp : \iota \Rightarrow o$ be given. Let $k2_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_cohsp_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_tarSKI : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v1_xboole_0 X0) \wedge ((v1_classes1 X0) \wedge (v1_coh_sp \\ X0))) \Rightarrow (\forall X1.(X1 \in k13_cohsp_1 X0) \Leftrightarrow ((r1_tarSKI X1 (k3_tarSKI \\ X0)) \wedge (\forall X2.(m1_subset_1 X2 X0) \Rightarrow (\exists X3.r1_tarSKI (\\ k3_xboole_0 X1 X2) (k1_tarSKI X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(r1_tarSKI (k2_tarSKI X0 X1) \\ (k1_tarSKI X2)) \Rightarrow (X0 = X2) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.k3_xboole_0 X0 X0 = X0 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarSKI X0 X1 = k2_tarSKI X1 X0 \quad (5)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v1_xboole_0 X0) \wedge ((v1_classes1 X0) \wedge (v1_coh_sp \\ X0))) \Rightarrow (\forall X1.\forall X2.\neg (X1 \neq X2) \wedge ((k2_tarSKI X1 X2 \in X0) \wedge \\ (k2_tarSKI X1 X2 \in k13_cohsp_1 X0))) \end{aligned}$$