t28_incsp_1 (TM-bqjTD27UhKfyKGccqYLJuCMVXdpw6nLxM)

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Let $v15\_incsp\_1 : \iota \Rightarrow o$ be given. Let $l2\_incsp\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_incsp\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_incsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1\_incsp\_1 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $u2\_incsp\_1 : \iota \Rightarrow \iota$ be given. Let $r4\_incsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l1\_incsp\_1\ X0) \Rightarrow (\neg v1\_xboole\_0\ (u1\_incsp\_1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.(l2\_incsp\_1\ X0) \Rightarrow (l1\_incsp\_1\ X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v15\_incsp\_1\ X0) \wedge (l2\_incsp\_1\ X0)) \wedge ((m1\_subset\_1\ X1\ (u1\_incsp\_1\ X0)) \wedge (m1\_subset\_1\ X2\ (u1\_incsp\_1\ X0)))) \Rightarrow (m1\_subset\_1\ (k1\_incsp\_1\ X0\ X1\ X2)\ (u2\_incsp\_1\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.((v15\_incsp\_1\ X0) \wedge (l2\_incsp\_1\ X0)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_incsp\_1\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_incsp\_1\ X0)) \Rightarrow ((X1 \neq X2) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u2\_incsp\_1\ X0)) \Rightarrow ((X3 = k1\_incsp\_1\ X0\ X1\ X2) \Leftrightarrow (r4\_incsp\_1\ X0\ (k7\_domain\_1\ (u1\_incsp\_1\ X0)\ X1\ X2)\ X3))))))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1\_xboole\_0\ X0) \wedge ((m1\_subset\_1\ X1\ X0) \wedge (m1\_subset\_1\ X2\ X0))) \Rightarrow (k7\_domain\_1\ X0\ X1\ X2 = k7\_domain\_1\ X0\ X2\ X1) \tag{5}$$

Theorem 1

$$\forall X0.((v15\_incsp\_1\ X0)\wedge(l2\_incsp\_1\ X0))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_incsp\_1\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_incsp\_1\ X0))\Rightarrow((X1\neq X2)\Rightarrow(k1\_incsp\_1\ X0\ X1\ X2 = k1\_incsp\_1\ X0\ X2\ X1))))$$