l7_amistd_2 (TMXTv8caevQwxxdSzaKg3RMvAc1ekhYxefd)

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Let $v1\_setfam\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_compos\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_extpro\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_compos\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k1\_compos\_1 : \iota$ be given. Let $k6\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $v13\_struct\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_compos\_1 : \iota \Rightarrow o$ be given. Let $l1\_compos\_1 : \iota \Rightarrow o$ be given. Let $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u2\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_partfun1 : \iota \Rightarrow \iota$ be given. Let $k4\_card\_3 : \iota \Rightarrow \iota$ be given. Let $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_compos\_0\ (u1\_compos\_1\ k1\_compos\_1))) \Rightarrow (k3\_compos\_0\ (u1\_compos\_1\ k1\_compos\_1)\ X0 = k6\_domain\_1\ k5\_numbers\ k6\_numbers) \tag{1}$$

Assume the following.

$$m1\_subset\_1\ k1\_xboole\_0\ k4\_ordinal1 \tag{2}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X1\ X0)) \Rightarrow (k6\_domain\_1\ X0\ X1 = k1\_tarski\ X1) \tag{4}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{5}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1)\wedge(v3\_ordinal1\ k4\_ordinal1) \tag{6}$$

Assume the following.

$$\forall X0.(\neg v1\_setfam\_1\ X0)\Rightarrow((v13\_struct\_0\ (k1\_extpro\_1\ X0)\ np\_\_1)\wedge(v1\_extpro\_1\ (k1\_extpro\_1\ X0)\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(\neg v1\_setfam\_1\ X0)\Rightarrow((v1\_extpro\_1\ (k1\_extpro\_1\ X0)\ X0)\wedge(l1\_extpro\_1\ (k1\_extpro\_1\ X0)\ X0)) \tag{8}$$

Assume the following.

$$(v1\_compos\_1\ k1\_compos\_1)\wedge(l1\_compos\_1\ k1\_compos\_1) \tag{9}$$

Assume the following.

$$\forall X0.((v1\_compos\_1\ X0)\wedge(l1\_compos\_1\ X0))\Rightarrow((X0 = k1\_compos\_1)\Leftrightarrow(u1\_compos\_1\ X0 = k1\_tarski\ (k3\_xtuple\_0\ k6\_numbers\ k1\_xboole\_0\ k1\_xboole\_0))) \tag{10}$$

Assume the following.

$$\forall X0.(\neg v1\_setfam\_1\ X0)\Rightarrow(\forall X1.((v1\_extpro\_1\ X1\ X0)\wedge(l1\_extpro\_1\ X1\ X0))\Rightarrow((X1 = k1\_extpro\_1\ X0)\Leftrightarrow((u1\_struct\_0\ X1 = k6\_domain\_1\ k5\_numbers\ k6\_numbers)\wedge((u2\_struct\_0\ X1 = k6\_numbers)\wedge((u1\_compos\_1\ X1 = k1\_tarski\ (k3\_xtuple\_0\ k6\_numbers\ k1\_xboole\_0\ k1\_xboole\_0))\wedge((u1\_memstr\_0\ X0\ X1 = k16\_funcop\_1\ k6\_numbers\ k6\_numbers)\wedge((u2\_memstr\_0\ X0\ X1 = k7\_funcop\_1\ X0\ k5\_numbers)\wedge(u1\_extpro\_1\ X0\ X1 = k16\_funcop\_1\ (k3\_xtuple\_0\ k6\_numbers\ k1\_xboole\_0\ k1\_xboole\_0)\ (k6\_partfun1\ (k4\_card\_3\ (k3\_relat\_1\ (k16\_funcop\_1\ k6\_numbers\ k6\_numbers)\ (k7\_funcop\_1\ X0\ k5\_numbers))))))))))) \tag{11}$$

Theorem 1

$$\forall X0.(\neg v1\_setfam\_1\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_compos\_0\ (u1\_compos\_1\ (k1\_extpro\_1\ X0))))\Rightarrow(k3\_compos\_0\ (u1\_compos\_1\ (k1\_extpro\_1\ X0))\ X1 = k1\_tarski\ k6\_numbers))$$