t1_amistd_2 (TMSZ6TGoAFi3MQ5DGHDs1CVhbp5fgfFRRgY)

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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 $u1\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_amistd\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_compos\_0 : \iota \Rightarrow o$ be given. Let $v5\_compos\_0 : \iota \Rightarrow o$ be given. Let $v4\_compos\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_compos\_1 : \iota \Rightarrow o$ be given. Let $v2\_compos\_0 : \iota \Rightarrow o$ be given. Let $v3\_compos\_0 : \iota \Rightarrow o$ be given. Let $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\neg(v1\_xboole\_0\ X0) \wedge ((X0 \neq X1) \wedge (v1\_xboole\_0\ X1)) \tag{1}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_compos\_0\ X0) \wedge (v5\_compos\_0\ X0)) \wedge ((v4\_compos\_0\ X1\ X0) \wedge (m1\_subset\_1\ X1\ X0))) \Rightarrow (v1\_xboole\_0\ (k5\_xtuple\_0\ X1)) \tag{3}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{4}$$

Assume the following.

$$\forall X0.(l1\_compos\_1\ X0) \Rightarrow ((v1\_compos\_0\ (u1\_compos\_1\ X0)) \wedge ((v2\_compos\_0\ (u1\_compos\_1\ X0)) \wedge ((v3\_compos\_0\ (u1\_compos\_1\ X0)) \wedge (v5\_compos\_0\ (u1\_compos\_1\ X0))))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1\ X1\ X0) \Rightarrow ((l1\_memstr\_0\ X1\ X0) \wedge (l1\_compos\_1\ X1)) \tag{6}$$

Assume the following.

$$\forall X0.(\neg v1\_setfam\_1\ X0) \Rightarrow ((v1\_extpro\_1\ (k4\_amistd\_1\ X0)\ X0) \wedge (l1\_extpro\_1\ (k4\_amistd\_1\ X0)\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(\neg v1\_setfam\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_compos\_1\ (k4\_amistd\_1\ X0))) \Rightarrow (v4\_compos\_0\ X1\ (u1\_compos\_1\ (k4\_amistd\_1\ X0)))) \tag{8}$$

Theorem 1

$$\forall X0.(\neg v1\_setfam\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_compos\_1\ (k4\_amistd\_1\ X0))) \Rightarrow (k5\_xtuple\_0\ X1 = k6\_numbers))$$