

t202\_member\_1  
(TMV9QFgNs9cLej31PdAxw6icmtZJEWKYtR1)

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Let  $v1\_membered : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k23\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_tarSKI : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $r1\_tarSKI : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_membered X0) \Rightarrow (r1\_tarSKI (k23\_member\_1 X0 k6\_numbers) (k1\_tarSKI k6\_numbers)) \quad (2)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarSKI X0 (k1\_tarSKI X1)) \Leftrightarrow ((X0 = k1\_xboole\_0) \vee (X0 = k1\_tarSKI X1)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v1\_xboole\_0 X0) \wedge (v1\_membered X0)) \wedge (v1\_xcmplx\_0 X1)) \Rightarrow (\neg v1\_xboole\_0 (k23\_member\_1 X0 X1)) \quad (5)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (6)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Leftrightarrow (\forall X1.\neg X1 \in X0) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0 X0)\Rightarrow((m1\_subset\_1 X1 X0)\Leftrightarrow (X1 \in X0)))\wedge((v1\_xboole\_0 X0)\Rightarrow((m1\_subset\_1 X1 X0)\Leftrightarrow(v1\_xboole\_0 X1))) \quad (8)$$

Assume the following.

$$\forall X0.(v1\_membered X0)\Leftrightarrow(\forall X1.(X1 \in X0)\Rightarrow(v1\_xcmplx\_0 X1)) \quad (9)$$

Assume the following.

$$\forall X0.(v1\_membered X0)\Rightarrow(\forall X1.(m1\_subset\_1 X1 X0)\Rightarrow(v1\_xcmplx\_0 X1)) \quad (10)$$

**Theorem 1**

$$\forall X0.(v1\_membered X0)\Rightarrow((X0\neq k1\_xboole\_0)\Rightarrow(k23\_member\_1 X0 k6\_numbers = k1\_tarski k6\_numbers))$$