t233_member_1 (TMXYy8oU2x1gSfr7KXT5F1ig3BPCn9gLKAw)

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Let $v1\_membered : \iota \Rightarrow o$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k27\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_member\_1 : \iota \Rightarrow \iota$ be given. Let $k13\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k25\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k15\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow (k7\_member\_1\ (k13\_member\_1\ X0\ X1) = k13\_member\_1\ (k7\_member\_1\ X0)\ (k7\_member\_1\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow (k7\_member\_1\ (k5\_xboole\_0\ X0\ X1) = k5\_xboole\_0\ (k7\_member\_1\ X0)\ (k7\_member\_1\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow (\forall X2.(v1\_xcmplx\_0\ X2) \Rightarrow ((X2 \neq k6\_numbers) \Rightarrow (k25\_member\_1\ (k5\_xboole\_0\ X0\ X1)\ X2 = k5\_xboole\_0\ (k25\_member\_1\ X0\ X2)\ (k25\_member\_1\ X1\ X2))))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (k7\_member\_1\ (k7\_member\_1\ X0) = X0) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (v1\_membered\ (k1\_tarski\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_membered\ X0) \wedge (v1\_membered\ X1)) \Rightarrow (v1\_membered\ (k5\_xboole\_0\ X0\ X1)) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_membered\ X0)\wedge(v1\_xcmplx\_0\ X1))\Rightarrow(v1\_membered\ (k27\_member\_1\ X0\ X1)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0)\Rightarrow(v1\_membered\ (k7\_member\_1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0)\Rightarrow(\forall X1.(v1\_xcmplx\_0\ X1)\Rightarrow(k27\_member\_1\ X0\ X1 = k15\_member\_1\ X0\ (k1\_tarski\ X1))) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0)\Rightarrow(\forall X1.(v1\_xcmplx\_0\ X1)\Rightarrow(k25\_member\_1\ X0\ X1 = k15\_member\_1\ (k1\_tarski\ X1)\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0)\Rightarrow(\forall X1.(v1\_membered\ X1)\Rightarrow(k15\_member\_1\ X0\ X1 = k13\_member\_1\ X0\ (k7\_member\_1\ X1))) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_membered\ X0)\wedge(v1\_membered\ X1))\Rightarrow(k13\_member\_1\ X0\ X1 = k13\_member\_1\ X1\ X0) \tag{12}$$

Theorem 1

$$\forall X0.(v1\_membered\ X0)\Rightarrow(\forall X1.(v1\_membered\ X1)\Rightarrow(\forall X2.(v1\_xcmplx\_0\ X2)\Rightarrow((X2\neq k6\_numbers)\Rightarrow(k27\_member\_1\ (k5\_xboole\_0\ X0\ X1)\ X2 = k5\_xboole\_0\ (k27\_member\_1\ X0\ X2)\ (k27\_member\_1\ X1\ X2))))))$$