t148_member_1 (TMRNopNcCUWphkhaUd-KeyPehULoVtSMXGHa)

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Let $v1\_membered : \iota{\Rightarrow}o$ be given. Let $v1\_xcmplx\_0 : \iota{\Rightarrow}o$ be given. Let $k17\_member\_1 : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k9\_member\_1 : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k1\_tarski : \iota{\Rightarrow}\iota$ be given. Assume the following.

$$\forall X0.(v1\_membered\ X0){\Rightarrow}(\forall X1.(v1\_membered\ X1){\Rightarrow}(\forall X2.$$
$$(v1\_membered\ X2){\Rightarrow}(k9\_member\_1\ (k9\_member\_1\ X0\ X1)\ X2 = k9\_member\_1$$
$$X0\ (k9\_member\_1\ X1\ X2)))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0){\Rightarrow}(v1\_membered\ (k1\_tarski\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_membered\ X0)\wedge(v1\_membered\ X1)){\Rightarrow}($$
$$v1\_membered\ (k9\_member\_1\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0){\Rightarrow}(\forall X1.(v1\_xcmplx\_0\ X1){\Rightarrow}(k17\_member\_1$$
$$X0\ X1 = k9\_member\_1\ (k1\_tarski\ X1)\ X0)) \tag{4}$$

Theorem 1

$$\forall X0.(v1\_membered\ X0){\Rightarrow}(\forall X1.(v1\_membered\ X1){\Rightarrow}(\forall X2.$$
$$(v1\_xcmplx\_0\ X2){\Rightarrow}(k17\_member\_1\ (k9\_member\_1\ X0\ X1)\ X2 = k9\_member\_1$$
$$(k17\_member\_1\ X0\ X2)\ X1)))$$