t235_member_1
(TMYg2aVLZXZDFACNN83RnJG7SAJGp3crKru)

October 27, 2020

Let $v1\_membered : \iota{\Rightarrow}o$ be given. Let $v1\_xcmplx\_0 : \iota{\Rightarrow}o$ be given. Let $k27\_member\_1 : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k11\_member\_1 : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k9\_member\_1 : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k15\_member\_1 : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k5\_member\_1 : \iota{\Rightarrow}\iota$ be given. Let $k1\_tarski : \iota{\Rightarrow}\iota$ be given. Assume the following.

$$\forall X0.(v1\_membered\ X0){\Rightarrow}(\forall X1.(v1\_membered\ X1){\Rightarrow}(\forall X2.$$
$$(v1\_xcmplx\_0\ X2){\Rightarrow}(k27\_member\_1\ (k9\_member\_1\ X0\ X1)\ X2 = k9\_member\_1$$
$$(k27\_member\_1\ X0\ X2)\ (k27\_member\_1\ X1\ X2))))$$
$$\tag{1}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0){\Rightarrow}(\forall X1.(v1\_membered\ X1){\Rightarrow}(k15\_member\_1$$
$$(k5\_member\_1\ X0)\ X1 = k5\_member\_1\ (k15\_member\_1\ X0\ X1)))\tag{2}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0){\Rightarrow}(v1\_membered\ (k1\_tarski\ X0))\tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_membered\ X0){\wedge}(v1\_xcmplx\_0\ X1)){\Rightarrow}($$
$$v1\_membered\ (k27\_member\_1\ X0\ X1))\tag{4}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0){\Rightarrow}(v1\_membered\ (k5\_member\_1\ X0))\tag{5}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0){\Rightarrow}(\forall X1.(v1\_membered\ X1){\Rightarrow}(k11\_member\_1$$
$$X0\ X1 = k9\_member\_1\ X0\ (k5\_member\_1\ X1)))\tag{6}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0){\Rightarrow}(\forall X1.(v1\_xcmplx\_0\ X1){\Rightarrow}(k27\_member\_1$$
$$X0\ X1 = k15\_member\_1\ X0\ (k1\_tarski\ X1)))\tag{7}$$

Theorem 1

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow (\forall X2.$$
$$(v1\_xcmplx\_0\ X2) \Rightarrow (k27\_member\_1\ (k11\_member\_1\ X0\ X1)\ X2 = k11\_member\_1$$
$$(k27\_member\_1\ X0\ X2)\ (k27\_member\_1\ X1\ X2))))$$