t163_member_1 (TMZ1UYDfag5n9rVi46GXvYvCF3BS8DxgvCz)

October 27, 2020

Let $v1\_membered : \iota \Rightarrow o$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k19\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_member\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k11\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(v1\_membered\ X1) \Rightarrow ((r1\_tarski\ X0\ X1) \Rightarrow (v1\_membered\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow (\forall X2.(v1\_xcmplx\_0\ X2) \Rightarrow ((r1\_tarski\ X0\ X1) \Leftrightarrow (r1\_tarski\ (k17\_member\_1\ X0\ X2)\ (k17\_member\_1\ X1\ X2))))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow ((r1\_tarski\ X0\ X1) \Leftrightarrow (r1\_tarski\ (k5\_member\_1\ X0)\ (k5\_member\_1\ X1)))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow ((r1\_tarski\ X0\ X1) \Rightarrow (r1\_tarski\ (k5\_member\_1\ X0)\ (k5\_member\_1\ X1)))) \tag{4}$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow (k11\_member\_1\ X0\ X1 = k9\_member\_1\ X0\ (k5\_member\_1\ X1))) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{8}$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k19\_member\_1\ X0\ X1 = k11\_member\_1\ (k1\_tarski\ X1)\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k17\_member\_1\ X0\ X1 = k9\_member\_1\ (k1\_tarski\ X1)\ X0)) \tag{11}$$

Theorem 1

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow (\forall X2.\ (v1\_xcmplx\_0\ X2) \Rightarrow ((r1\_tarski\ X0\ X1) \Leftrightarrow (r1\_tarski\ (k19\_member\_1\ X0\ X2)\ (k19\_member\_1\ X1\ X2))))))$$