t128_member_1 (TM-TopZ6hJ5PTtHMBb34pMhw2aasLWexPaL6)

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Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k15\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k6\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_member\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_binop\_2 : \iota \Rightarrow \iota$ be given. Let $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k13\_member\_1\ (k1\_tarski\ X0)\ (k1\_tarski\ X1) = k1\_tarski\ (k5\_binop\_2\ X0\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k7\_member\_1\ (k1\_tarski\ X0) = k1\_tarski\ (k2\_binop\_2\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0) \wedge (v1\_xcmplx\_0\ X1)) \Rightarrow (k6\_binop\_2\ X0\ X1 = k7\_xcmplx\_0\ X0\ X1) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0) \wedge (v1\_xcmplx\_0\ X1)) \Rightarrow (k5\_binop\_2\ X0\ X1 = k3\_xcmplx\_0\ X0\ X1) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k2\_binop\_2\ X0 = k5\_xcmplx\_0\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (v1\_membered\ (k1\_tarski\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (v1\_xcmplx\_0\ (k5\_xcmplx\_0\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k7\_xcmplx\_0\ X0\ X1 = k3\_xcmplx\_0\ X0\ (k5\_xcmplx\_0\ X1))) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(v1\_membered\ X1) \Rightarrow (k15\_member\_1\ X0\ X1 = k13\_member\_1\ X0\ (k7\_member\_1\ X1))) \tag{9}$$

Theorem 1

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k15\_member\_1\ (k1\_tarski\ X0)\ (k1\_tarski\ X1) = k1\_tarski\ (k6\_binop\_2\ X0\ X1)))$$