

t12_member_1

(TMR96BDfsbUAp4RUHefRSgVTgXA6RXoZZU5)

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Let $v1_membered : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_binop_2 : \iota \Rightarrow \iota$ be given. Let $k5_member_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((X1 \in X0) \Leftrightarrow (k1_binop_2 X1 \in k5_member_1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (k5_member_1 (k5_member_1 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (v1_membered (k5_member_1 X0)) \quad (3)$$

Theorem 1

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((k1_binop_2 X1 \in X0) \Leftrightarrow (X1 \in k5_member_1 X0)))$$