

l36_member_1

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Let $v1_membered : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_member_1 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k2_binop_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((k2_binop_2 X1 \in X0) \Leftrightarrow (X1 \in k7_member_1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (v1_membered (k7_member_1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski X0 X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \quad (3)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow (v1_xcmplx_0 X1)) \quad (4)$$

Theorem 1

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_membered X1) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (r1_tarski (k7_member_1 X0) (k7_member_1 X1))))$$