

l16_member_1
(TMLupABfzvavLC8eoPwpZwg8jgL91Y2wb76)

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Let $v1_membered : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_member_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k1_binop_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. (v1_membered X0) \Rightarrow (k5_member_1 X0 = ReplSep (toset (\lambda X1 : \iota. m1_subset_1 X1 k2_numbers)) (\lambda X1 : \iota. X1 \in X0) (\lambda X1 : \iota. k1_binop_2 X1))) \quad (2)$$

Theorem 1

$$\forall X0. (v1_membered X0) \Rightarrow (\forall X1. (v1_membered X1) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (r1_tarski (k5_member_1 X0) (k5_member_1 X1))))$$