

t1_member_1 (TMamogAiNuZ-
JaVWXMAP1Vyvt28pCH9kUp16)

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Let $v2_membered : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $k4_member_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $k1_member_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k7_numbers) \Rightarrow (k1_member_1 X0 = k2_xxreal_3 X0) \quad (2)$$

Assume the following.

$$\forall X0. (v2_membered X0) \Rightarrow (k4_member_1 (k4_member_1 X0) = X0) \quad (3)$$

Assume the following.

$$\forall X0. (v1_xxreal_0 X0) \Rightarrow (k2_xxreal_3 (k2_xxreal_3 X0) = X0) \quad (4)$$

Assume the following.

$$\forall X0. (v2_membered X0) \Rightarrow (v2_membered (k4_member_1 X0)) \quad (5)$$

Assume the following.

$$\forall X0. (v1_xxreal_0 X0) \Rightarrow (v1_xxreal_0 (k2_xxreal_3 X0)) \quad (6)$$

Assume the following.

$$\forall X0. (v1_xxreal_0 X0) \Leftrightarrow (X0 \in k7_numbers) \quad (7)$$

Assume the following.

$$\forall X0. (v2_membered X0) \Rightarrow (k4_member_1 X0 = \text{ReplSep} (\text{toset} (\lambda X1 : \iota. m1_subset_1 X1 k7_numbers)) (\lambda X1 : \iota. X1 \in X0) (\lambda X1 : \iota. k1_member_1 X1))) \quad (8)$$

Theorem 1

$$\forall X0. (v2_membered X0) \Rightarrow (\forall X1. (v1_xxreal_0 X1) \Rightarrow ((X1 \in X0) \Leftrightarrow (k2_xxreal_3 X1 \in k4_member_1 X0)))$$