

t2\_member\_1  
(TMZigERD4byKjfJfZLHwU6nDjegr61mgLPB)

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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. Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow ((X1 \in X0) \Leftrightarrow (k2\_xxreal\_3 X1 \in k4\_member\_1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (k2\_xxreal\_3 (k2\_xxreal\_3 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (v1\_xxreal\_0 (k2\_xxreal\_3 X0)) \quad (3)$$

**Theorem 1**

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow ((k2\_xxreal\_3 X1 \in X0) \Leftrightarrow (X1 \in k4\_member\_1 X0)))$$