

t136\_member\_1

(TMYsyk8EGWUNVLwkeay8trMuYZNZm3XxdXE)

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Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k16\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow (\forall X2. \\ (v1\_xreal\_0 X2) \Rightarrow ((r1\_tarski (k16\_member\_1 X0 X2) (k16\_member\_1 \\ X1 X2)) \Rightarrow (r1\_tarski X0 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X0)) \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow (\forall X2. \\ (v1\_xreal\_0 X2) \Rightarrow ((k16\_member\_1 X0 X2 = k16\_member\_1 X1 X2) \Rightarrow (X0 = \\ X1)))) \end{aligned}$$