

t45\_xxreal\_2

(TMY2UFa5upmzw2KZAH18naacqQ374zsToue)

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Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v5\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v3\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v4\_xxreal\_2 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((r1\_tarski X0 X1) \wedge (v3\_xxreal\_2 X1)) \Rightarrow (v3\_xxreal\_2 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((r1\_tarski X0 X1) \wedge (v4\_xxreal\_2 X1)) \Rightarrow (v4\_xxreal\_2 X0)) \quad (2)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow ((v5\_xxreal\_2 X0) \Leftrightarrow ((v3\_xxreal\_2 X0) \wedge (v4\_xxreal\_2 X0))) \quad (3)$$

**Theorem 1**

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((r1\_tarski X0 X1) \wedge (v5\_xxreal\_2 X1)) \Rightarrow (v5\_xxreal\_2 X0))$$