

# t43\_xxreal\_2 (TMMaFQoUTNaDBdK- FTmtWBpJkyUyJr9Nz6kw)

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Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $m1\_xxreal\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((r1\_tarski X0 X1) \Rightarrow (\forall X2.(m1\_xxreal\_2 X2 X1) \Rightarrow (m1\_xxreal\_2 X2 X0)))) \quad (1)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow ((v4\_xxreal\_2 X0) \Leftrightarrow (\exists X1.(v1\_xreal\_0 X1) \wedge (m1\_xxreal\_2 X1 X0))) \quad (2)$$

## Theorem 1

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