

# t69\_xxreal\_2 (TMNFvaqNZwg- Wip22ZbCgcXFvebWAR7xZiNZ)

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Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((X0 \in X1) \Rightarrow (r1\_xxreal\_0 X0 (k1\_xxreal\_2 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((X0 \in X1) \Rightarrow (r1\_xxreal\_0 (k2\_xxreal\_2 X1) X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2.(v1\_xxreal\_0 X2) \Rightarrow ((X0 \in k1\_xxreal\_1 X1 X2) \Leftrightarrow ((r1\_xxreal\_0 X1 X0) \wedge (r1\_xxreal\_0 X0 X2)))))) \quad (3)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (v1\_xxreal\_0 (k2\_xxreal\_2 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (v1\_xxreal\_0 (k1\_xxreal\_2 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(r1\_tarski X0 X1) \Leftrightarrow (\forall X2.(v1\_xxreal\_0 X2) \Rightarrow ((X2 \in X0) \Rightarrow (X2 \in X1)))) \quad (6)$$

## Theorem 1

$$\forall X0.(v2\_membered X0) \Rightarrow (r1\_tarski X0 (k1\_xxreal\_1 (k2\_xxreal\_2 X0) (k1\_xxreal\_2 X0)))$$