

# t44\_member\_1 (TMTxQLXzB- hBm5rsYrGVkggqmYwJTton3ygy)

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Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k8\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (k8\_member\_1 (k1\_tarski X0) (k1\_tarski X1) = k1\_tarski (k1\_xxreal\_3 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow (\forall X2.(v2\_membered X2) \Rightarrow (k8\_member\_1 X0 (k2\_xboole\_0 X1 X2) = k2\_xboole\_0 (k8\_member\_1 X0 X1) (k8\_member\_1 X0 X2)))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.k2\_tarski X0 X1 = k2\_xboole\_0 (k1\_tarski X0) (k1\_tarski X1) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (v2\_membered (k1\_tarski X0)) \quad (4)$$

## Theorem 1

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2.(v1\_xxreal\_0 X2) \Rightarrow (k8\_member\_1 (k1\_tarski X0) (k2\_tarski X1 X2) = k2\_tarski (k1\_xxreal\_3 X0 X1) (k1\_xxreal\_3 X0 X2))))$$