

t1\_supinf\_1  
(TMTDzQo18pxeq2pQ7SQaR8YAqhJoisjK51B)

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Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k3\_supinf\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_xxreal\_2 : \iota \Rightarrow \iota \Rightarrow o$  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.

$$\forall X0.(v2\_membered X0) \Rightarrow (v2\_membered (k3\_supinf\_1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((X1 = k3\_supinf\_1 X0) \Leftrightarrow (\forall X2.(v1\_xxreal\_0 X2) \Rightarrow ((X2 \in X1) \Leftrightarrow (m1\_xxreal\_2 X2 X0))))) \quad (3)$$

**Theorem 1**

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((r1\_tarski X0 X1) \Rightarrow (\forall X2.(v1\_xxreal\_0 X2) \Rightarrow ((X2 \in k3\_supinf\_1 X1) \Rightarrow (X2 \in k3\_supinf\_1 X0)))))$$