

## t48\_seq\_4

(TMVp3cxoECFSB4MbjqXGjrXzexVJ9iYCuv2)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $k1\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

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

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.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0 X0) \wedge ((v3\_membered X0) \wedge (v4\_xxreal\_2 X0))) \Rightarrow (k2\_seq\_4 X0 = k1\_xxreal\_2 X0) \quad (4)$$

Assume the following.

$$\forall X0.(v3\_membered X0) \Rightarrow (v2\_membered X0) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (v1\_xboole\_0 X1)) \quad (6)$$

### Theorem 1

$$\forall X0.((\neg v1\_xboole\_0 X0) \wedge (v3\_membered X0)) \Rightarrow (\forall X1.(v3\_membered X1) \Rightarrow (((r1\_tarski X0 X1) \wedge (v4\_xxreal\_2 X1)) \Rightarrow (r1\_xxreal\_0 (k2\_seq\_4 X0) (k2\_seq\_4 X1))))$$