

t11\_seq\_4 (TM-  
NXa4LyZPBNvw2B6ttDWQoHWWBEzDYnm2s)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v5\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $k4\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $k2\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k3\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $k2\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $v4\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v3\_xxreal\_2 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow ((\neg v1\_xboole\_0 X0) \Leftrightarrow (r1\_xxreal\_0 (k2\_xxreal\_2 X0) (k1\_xxreal\_2 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (k5\_seq\_4 X0 = k3\_seq\_4 X0) \quad (2)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (k4\_seq\_4 X0 = k2\_seq\_4 X0) \quad (3)$$

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.

$$\forall X0.((\neg v1\_xboole\_0 X0) \wedge ((v3\_membered X0) \wedge (v3\_xxreal\_2 X0))) \Rightarrow (k3\_seq\_4 X0 = k2\_xxreal\_2 X0) \quad (5)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (v3\_membered X0) \quad (6)$$

Assume the following.

$$\forall X0.((v2\_membered\ X0)\wedge(v5\_xxreal\_2\ X0))\Rightarrow((v2\_membered\ X0)\wedge((v3\_xxreal\_2\ X0)\wedge(v4\_xxreal\_2\ X0))) \quad (7)$$

Assume the following.

$$\forall X0.(v3\_membered\ X0)\Rightarrow(v2\_membered\ X0) \quad (8)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow((v5\_xxreal\_2\ X0)\Rightarrow((v1\_xboole\_0\ X0)\vee(r1\_xxreal\_0\ (k5\_seq\_4\ X0)\ (k4\_seq\_4\ X0))))$$