

t144\_seq\_4

(TML7kYai3cBZGMXQEPSDcJg5w3df8xWu4J6)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. 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  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $k2\_seq\_4 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v3\_membered X0)) \Rightarrow (\forall X1. \\ (v1\_xreal\_0 X1) \Rightarrow (\forall X2. (v1\_xreal\_0 X2) \Rightarrow ((\forall X3. (v1\_xreal\_0 \\ X3) \Rightarrow ((X3 \in X0) \Rightarrow (r1\_xxreal\_0 X3 X2)))) \Rightarrow (r1\_xxreal\_0 (k2\_seq\_4 X0) \\ X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (k4\_seq\_4 \\ X0 = k2\_seq\_4 X0) \tag{2}$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (v3\_membered \\ X0) \tag{3}$$

**Theorem 1**

$$\begin{aligned} \forall X0. ((\neg v1\_xboole\_0 X0) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers))) \Rightarrow \\ (\forall X1. (v1\_xreal\_0 X1) \Rightarrow ((\forall X2. (v1\_xreal\_0 X2) \Rightarrow (( \\ X2 \in X0) \Rightarrow (r1\_xxreal\_0 X2 X1)))) \Rightarrow (r1\_xxreal\_0 (k4\_seq\_4 X0) X1))) \end{aligned}$$