

## t14\_rcomp\_1

(TMHEh9WPxGkBQN9aXWuRsQ3o3d7dxTSvQ3x)

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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  $v1\_rcomp\_1 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $k5\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v2\_rcomp\_1 : \iota \Rightarrow o$  be given. Let  $v3\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v4\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v5\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (((v2\_rcomp\_1 X0) \wedge (v3\_xxreal\_2 X0)) \Rightarrow ((X0 = k1\_xboole\_0) \vee (k5\_seq\_4 X0 \in X0))) \quad (1)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (((v2\_rcomp\_1 X0) \wedge (v4\_xxreal\_2 X0)) \Rightarrow ((X0 = k1\_xboole\_0) \vee (k4\_seq\_4 X0 \in X0))) \quad (2)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow ((v1\_rcomp\_1 X0) \Rightarrow (v5\_xxreal\_2 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (v3\_membered X0) \quad (4)$$

Assume the following.

$$\forall X0.((v2\_membered X0) \wedge (v5\_xxreal\_2 X0)) \Rightarrow ((v2\_membered X0) \wedge ((v3\_xxreal\_2 X0) \wedge (v4\_xxreal\_2 X0))) \quad (5)$$

Assume the following.

$$\forall X0.(v3\_membered X0) \Rightarrow (v2\_membered X0) \quad (6)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow ((v1\_rcomp\_1 X0) \Rightarrow (v2\_rcomp\_1 X0)) \quad (7)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow ((v1\_rcomp\_1 X0) \Rightarrow ((X0 = k1\_xboole\_0) \vee ((k4\_seq\_4 X0 \in X0) \wedge (k5\_seq\_4 X0 \in X0))))$$