

## t23\_rcomp\_3

(TMH5PGiXnaQNUDFx9FAWgaFz3zgiYPuF4P5)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v6\_xxreal\_2 : \iota \Rightarrow o$  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  $v4\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v3\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $k4\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $k10\_prob\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v2\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $k4\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_0 : \iota$  be given. Let  $k2\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((v2\_membered X0) \wedge ((\neg v1\_xboole\_0 X0) \wedge ((\neg v1\_xxreal\_2 X0) \wedge ((\neg v2\_xxreal\_2 X0) \wedge (v6\_xxreal\_2 X0)))))) \Rightarrow (X0 = k4\_xxreal\_1 (k2\_xxreal\_2 X0) (k1\_xxreal\_2 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow ((v3\_xxreal\_2 X0) \Leftrightarrow (k2\_xxreal\_2 X0 \neq k2\_xxreal\_0)) \quad (2)$$

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.

$$v3\_membered k1\_numbers \quad (5)$$

Assume the following.

$$\forall X0.((v3\_membered X0) \wedge ((\neg v1\_xboole\_0 X0) \wedge (v4\_xxreal\_2 X0))) \Rightarrow ((v1\_xxreal\_0 (k1\_xxreal\_2 X0)) \wedge (v1\_xreal\_0 (k1\_xxreal\_2 X0))) \quad (6)$$

Assume the following.

$$\forall X0.(v3\_membered\ X0) \Rightarrow ((v2\_xxreal\_2\ X0) \Leftrightarrow ((v4\_xxreal\_2\ X0) \wedge (k2\_seq\_4\ X0 \in X0))) \quad (7)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (k10\_prob\_1\ X0 = k4\_xxreal\_1\ k2\_xxreal\_0\ X0) \quad (8)$$

Assume the following.

$$\forall X0.(v3\_membered\ X0) \Rightarrow (v2\_membered\ X0) \quad (9)$$

Assume the following.

$$\forall X0.(v3\_membered\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow (v3\_membered\ X1)) \quad (10)$$

Assume the following.

$$\forall X0.((v3\_membered\ X0) \wedge (v1\_xxreal\_2\ X0)) \Rightarrow ((v3\_membered\ X0) \wedge (v3\_xxreal\_2\ X0)) \quad (11)$$

**Theorem 1**

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge ((v6\_xxreal\_2\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers)))) \Rightarrow ((v4\_xxreal\_2\ X0) \Rightarrow ((v3\_xxreal\_2\ X0) \vee ((k4\_seq\_4\ X0 \in X0) \vee (X0 = k10\_prob\_1\ (k4\_seq\_4\ X0))))))$$