

## t2\_xxreal\_3

(TMW1WF1kb7owxM4qsKeBz7Wbi8kDdiQqBHG)

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Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v3\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xxreal\_0 : \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_xxreal\_0 : \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\neg(\neg X0 \in k1\_numbers) \wedge ((X0 \neq k1\_xxreal\_0) \wedge (X0 \neq k2\_xxreal\_0))) \tag{1}$$

Assume the following.

$$v2\_xxreal\_0 k1\_xxreal\_0 \tag{2}$$

Assume the following.

$$k1\_xxreal\_0 = k1\_numbers \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Leftrightarrow (X0 \in k1\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.((v1\_xxreal\_0 X0) \wedge (v2\_xxreal\_0 X0)) \Rightarrow ((\neg v1\_xboole\_0 X0) \wedge ((v1\_xxreal\_0 X0) \wedge (\neg v3\_xxreal\_0 X0))) \tag{5}$$

**Theorem 1**

$$\forall X0.((v1\_xxreal\_0 X0) \wedge ((v3\_xxreal\_0 X0) \wedge (\neg v1\_xreal\_0 X0))) \Rightarrow (X0 = k2\_xxreal\_0)$$