t1_xxreal_3 (TMYaX38rzkuMRBU1pmHzMf9TCW2AeAe4E7g)

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

$$v3\_xxreal\_0\ k2\_xxreal\_0 \tag{2}$$

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

$$\forall X0.((v1\_xxreal\_0\ X0) \wedge ((v2\_xxreal\_0\ X0) \wedge (\neg v1\_xreal\_0\ X0))) \Rightarrow (X0 = k1\_xxreal\_0)$$