t47_xxreal_0 (TMSB1vjN2RYhRqAZtkHjFd2TWiPVxurPWVt)

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Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_xxreal\_0 : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (r1\_xxreal\_0\ k2\_xxreal\_0\ X0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\neg (X0 \in k1\_numbers) \wedge ((r1\_xxreal\_0\ X1\ X0) \wedge ((\neg X1 \in k1\_numbers) \wedge (X1 \neq k2\_xxreal\_0))))) \tag{2}$$

Theorem 1

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow (((X0 \in k1\_numbers) \wedge (r1\_xxreal\_0\ X2\ X0)) \Rightarrow ((r1\_xxreal\_0\ X2\ X1) \vee (X2 \in k1\_numbers)))))$$