

t46_xxreal_0 (TM-
PwK6h5sMZGZjVz6L28J88RPLrhM8aAxEY)

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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 $k1_xxreal_0 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (r1_xxreal_0 X0 k1_xxreal_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\neg (X0 \in k1_numbers) \wedge ((r1_xxreal_0 X0 X1) \wedge ((\neg X1 \in k1_numbers) \wedge (X1 \neq k1_xxreal_0)))))) \quad (2)$$

Theorem 1

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2.(v1_xxreal_0 X2) \Rightarrow (((X0 \in k1_numbers) \wedge (r1_xxreal_0 X0 X1)) \Rightarrow ((r1_xxreal_0 X2 X1) \vee (X1 \in k1_numbers))))))$$