t62_xxreal_3 (TMMcszYpcuyPnQ833WAk3aPQpAj24fzpvCT)

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Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $k2\_xxreal\_0 : \iota$ be given. Let $k1\_xxreal\_0 : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k3\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xxreal\_0\ X2) \Rightarrow ((X0 \in k1\_numbers) \Rightarrow ((r1\_xxreal\_0\ X2\ X1) \vee ((\neg\ r1\_xxreal\_0\ (k1\_xxreal\_3\ X2\ X0)\ (k1\_xxreal\_3\ X1\ X0)) \wedge (\neg r1\_xxreal\_0\ (k3\_xxreal\_3\ X2\ X0)\ (k3\_xxreal\_3\ X1\ X0)))))))) \tag{1}$$

Assume the following.

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

Theorem 1

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xxreal\_0\ X2) \Rightarrow (\neg(X2 \neq k2\_xxreal\_0) \wedge ((X2 \neq k1\_xxreal\_0) \wedge ((\neg r1\_xxreal\_0\ X1\ X0) \wedge (r1\_xxreal\_0\ (k1\_xxreal\_3\ X1\ X2)\ (k1\_xxreal\_3\ X0\ X2)))))))$$