t21_xxreal_3 (TMWeT8K54f58XZDHQjRmF7L33RLPSNrPAwG)

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

$$\neg k1\_xxreal\_0 \in k1\_numbers \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow ((X0 \neq k2\_xxreal\_0) \Rightarrow ((k3\_xxreal\_3\ k2\_xxreal\_0\ X0 = k2\_xxreal\_0) \wedge (k3\_xxreal\_3\ X0\ k2\_xxreal\_0 = k1\_xxreal\_0))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow ((X0 \neq k1\_xxreal\_0) \Rightarrow ((k3\_xxreal\_3\ k1\_xxreal\_0\ X0 = k1\_xxreal\_0) \wedge (k3\_xxreal\_3\ X0\ k1\_xxreal\_0 = k2\_xxreal\_0))) \tag{3}$$

Assume the following.

$$\neg k2\_xxreal\_0 \in k1\_numbers \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\neg(\neg X0 \in k1\_numbers) \wedge ((X0 \neq k1\_xxreal\_0) \wedge (X0 \neq k2\_xxreal\_0))) \tag{5}$$

Assume the following.

$$k1\_xxreal\_0 = k1\_numbers \tag{6}$$

Theorem 1

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\neg(\neg(X0 = k1\_xxreal\_0) \wedge (X1 = k1\_xxreal\_0)) \wedge ((\neg(X0 = k2\_xxreal\_0) \wedge (X1 = k2\_xxreal\_0)) \wedge ((k3\_xxreal\_3\ X0\ X1 \in k1\_numbers) \wedge (\neg(X0 \in k1\_numbers) \wedge (X1 \in k1\_numbers))))))$$