t219_xxreal_1 (TMJskgJv6SeSkUniMsEG23UKBX3AKeSJdV8)

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Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xxreal\_0 : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (r1\_xxreal\_0\ X0\ k1\_xxreal\_0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xxreal\_0\ X2) \Rightarrow ((X0 \in k1\_xxreal\_1\ X1\ X2) \Leftrightarrow ((r1\_xxreal\_0\ X1\ X0) \wedge (r1\_xxreal\_0\ X0\ X2))))) \tag{2}$$

Assume the following.

$$v1\_xxreal\_0\ k1\_xxreal\_0 \tag{3}$$

Theorem 1

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (X1 \in k1\_xxreal\_1\ X0\ k1\_xxreal\_0)))$$