t1_chain_1 (TMPGkb4zXFYSZYbdJLLmcvcnpoyCdkgc9Z9)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X1\ X0) \wedge (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X2\ X0) \wedge (\neg r1\_xxreal\_0\ X1\ X2))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Leftrightarrow (X0 \in k1\_numbers) \tag{3}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X1\ X0) \wedge (\forall X2.(m1\_subset\_1\ X2\ k1\_numbers) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X2\ X0) \wedge (\neg r1\_xxreal\_0\ X1\ X2))))))$$