

t5\_xxreal\_0  
(TMGkpDwmYFRj29DdRYqLtNWpzJgCAsNFxtM)

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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  $k2\_xxreal\_0 : \iota$  be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow ((r1\_xxreal\_0 X0 k2\_xxreal\_0) \Rightarrow (X0 = k2\_xxreal\_0)) \quad (1)$$

Assume the following.

$$v1\_xxreal\_0 k2\_xxreal\_0 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0) \wedge (v1\_xxreal\_0 X1)) \Rightarrow (r1\_xxreal\_0 X0 X1) \vee (r1\_xxreal\_0 X1 X0) \quad (3)$$

**Theorem 1**  $\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (r1\_xxreal\_0 k2\_xxreal\_0 X0)$ .