

t2\_xxreal\_1

(TMHWhwn3zt3DkiHg3zR3LeQTa5cbYKbvQgt)

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Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k3\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  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  $k7\_numbers : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (v1\_xxreal\_0 X0) \Rightarrow (\forall X1. (v1\_xxreal\_0 X1) \Rightarrow (k3\_xxreal\_1 \\ X0 X1 = ReplSep (toset (\lambda X2 : \iota. m1\_subset\_1 X2 k7\_numbers)) \\ (\lambda X2 : \iota. (\neg r1\_xxreal\_0 X2 X0) \wedge (r1\_xxreal\_0 X2 X1)) (\lambda X2 : \\ \iota. X2)))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0. (v1\_xxreal\_0 X0) \Leftrightarrow (X0 \in k7\_numbers) \quad (3)$$

**Theorem 1**

$$\begin{aligned} \forall X0. (v1\_xxreal\_0 X0) \Rightarrow (\forall X1. (v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\ (v1\_xxreal\_0 X2) \Rightarrow ((X0 \in k3\_xxreal\_1 X1 X2) \Leftrightarrow ((\neg r1\_xxreal\_0 X0 X1) \wedge \\ (r1\_xxreal\_0 X0 X2)))))) \end{aligned}$$