

t3_xxreal_1
 (TMZepsSUbXahBvefihAn3Fb5vp8nBCvfskB)

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Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k2_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\begin{aligned} \forall X0. (v1_xxreal_0 X0) \Rightarrow (\forall X1. (v1_xxreal_0 X1) \Rightarrow (k2_xxreal_1 \\ X0 X1 = ReplSep (toset (\lambda X2 : \iota. m1_subset_1 X2 k7_numbers)) \\ (\lambda X2 : \iota. (r1_xxreal_0 X0 X2) \wedge (\neg r1_xxreal_0 X1 X2)) (\lambda X2 : \\ \iota. X2)))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0. (v1_xxreal_0 X0) \Leftrightarrow (X0 \in k7_numbers) \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0. (v1_xxreal_0 X0) \Rightarrow (\forall X1. (v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ (v1_xxreal_0 X2) \Rightarrow ((X0 \in k2_xxreal_1 X1 X2) \Leftrightarrow ((r1_xxreal_0 X1 X0) \wedge \\ (\neg r1_xxreal_0 X2 X0)))))) \end{aligned}$$