

t70_xxreal_3

(TMcrrafJprWd9gnvsMLntqNkwic3YJqCoYa)

October 27, 2020

Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $k4_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\neg(\neg X0 \in k1_numbers) \wedge ((X0 \neq k1_xxreal_0) \wedge (X0 \neq k2_xxreal_0))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \Rightarrow ((v1_xxreal_0 (k4_xxreal_3 X0 X1)) \wedge (v1_xreal_0 (k4_xxreal_3 X0 X1))) \quad (2)$$

Assume the following.

$$\neg v1_xreal_0 k2_xxreal_0 \quad (3)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Leftrightarrow (X0 \in k1_numbers) \quad (4)$$

Theorem 1

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg (X0 \neq k1_xxreal_0) \wedge ((X0 \neq k2_xxreal_0) \wedge ((k4_xxreal_3 X0 X1 = k2_xxreal_0) \wedge ((X1 \neq k1_xxreal_0) \wedge (X1 \neq k2_xxreal_0)))))))$$