

t19_xxreal_3

(TMJ92cXW4F52mqTSXTyMSDT8fZzChdGTkjr)

October 27, 2020

Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k3_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $k1_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$k2_xxreal_3 \ k2_xxreal_0 = k1_xxreal_0 \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow (\forall X1.(v1_xxreal_0 \ X1) \Rightarrow (\neg (k1_xxreal_3 \ X0 \ X1 = k2_xxreal_0) \wedge ((X0 \neq k2_xxreal_0) \wedge (X1 \neq k2_xxreal_0)))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow (k2_xxreal_3 \ (k2_xxreal_3 \ X0) = X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow (v1_xxreal_0 \ (k2_xxreal_3 \ X0)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow (\forall X1.(v1_xxreal_0 \ X1) \Rightarrow (k3_xxreal_3 \ X0 \ X1 = k1_xxreal_3 \ X0 \ (k2_xxreal_3 \ X1))) \quad (5)$$

Theorem 1

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow (\forall X1.(v1_xxreal_0 \ X1) \Rightarrow (\neg (k3_xxreal_3 \ X0 \ X1 = k2_xxreal_0) \wedge ((X0 \neq k2_xxreal_0) \wedge (X1 \neq k1_xxreal_0))))$$