

t44_xxreal_0
(TMXx96wbjCZGr82BpDhjzosG6Jvdx3eQ1gC)

October 27, 2020

Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k3_xxreal_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (r1_xxreal_0 k2_xxreal_0 X0) \quad (1)$$

Assume the following.

$$v1_xxreal_0 k2_xxreal_0 \quad (2)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \Rightarrow (k3_xxreal_0 X0 X1 = X0)) \wedge ((\neg r1_xxreal_0 X0 X1) \Rightarrow (k3_xxreal_0 X0 X1 = X1)))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (k3_xxreal_0 X0 X1 = k3_xxreal_0 X1 X0) \quad (4)$$

Theorem 1

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k3_xxreal_0 X0 k2_xxreal_0 = k2_xxreal_0)$$