

l23_xxreal_3 (TMQLcWqbinhcWn- odCu8WNvcqUMWKMb3HMQi)

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

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (k2_xxreal_3 (k1_xxreal_3 X0 X1) = k1_xxreal_3 (k2_xxreal_3 X0) (k2_xxreal_3 X1))) \quad (1)$$

Assume the following.

$$k2_xxreal_3 k2_xxreal_0 = k1_xxreal_0 \quad (2)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\neg (k1_xxreal_3 X0 X1 = k1_xxreal_0) \wedge ((X0 \neq k1_xxreal_0) \wedge (X1 \neq k1_xxreal_0)))) \quad (3)$$

Assume the following.

$$k2_xxreal_3 k1_xxreal_0 = k2_xxreal_0 \quad (4)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (v1_xxreal_0 (k2_xxreal_3 X0)) \quad (6)$$

Theorem 1

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