

l16_xxreal_3
(TMPJ1ZRGnpBCh5NEw3KNAvgh2pMkkz656dQ)

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Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $k1_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $k3_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k1_xxreal_3 X0 (k2_xxreal_3 X0) = k6_numbers) \quad (1)$$

Assume the following.

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

Assume the following.

$$k2_xxreal_3 k2_xxreal_0 = k1_xxreal_0 \quad (3)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k1_xxreal_3 X0 k6_numbers = X0) \quad (4)$$

Assume the following.

$$v1_xxreal_0 k2_xxreal_0 \quad (5)$$

Assume the following.

$$v1_xxreal_0 k1_xxreal_0 \quad (6)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (v1_xxreal_0 (k2_xxreal_3 X0)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (v1_xxreal_0 (k1_xxreal_3 X0 X1)) \quad (8)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (k3_xxreal_3 X0 X1 = k1_xxreal_3 X0 (k2_xxreal_3 X1))) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0)\wedge(v1_xxreal_0 X1))\Rightarrow(\\ k1_xxreal_3 X0 X1 = k1_xxreal_3 X1 X0) \quad (10)$$

Theorem 1

$$k2_xxreal_3 (k1_xxreal_3 k1_xxreal_0 k2_xxreal_0) = k3_xxreal_3 \\ (k2_xxreal_3 k2_xxreal_0) k1_xxreal_0$$