

t7_fvaluat1

(TMXW5Nysja9co5YYxVCeyWvKQhZA2mmg4b8)

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Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k6_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k4_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k5_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0 X2) \Rightarrow ((v1_xreal_0 X0) \Rightarrow (k4_xxreal_3 X0 (k1_xxreal_3 \\ & X1 X2) = k1_xxreal_3 (k4_xxreal_3 X0 X1) (k4_xxreal_3 X0 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\neg(\neg X0 \in k1_numbers) \wedge ((X0 \neq k1_xxreal_0) \wedge (X0 \neq k2_xxreal_0))) \quad (4)$$

Assume the following.

$$\exists X0.(v1_xboole_0 X0) \wedge ((v1_xcmplx_0 X0) \wedge ((v1_xxreal_0 X0) \wedge (v1_xreal_0 X0))) \quad (5)$$

Assume the following.

$$(v1_xboole_0 (k5_xxreal_3 k1_xxreal_0)) \wedge (v1_xxreal_0 (k5_xxreal_3 k1_xxreal_0)) \quad (6)$$

Assume the following.

$$(v1_xboole_0 (k5_xxreal_3 k2_xxreal_0)) \wedge (v1_xxreal_0 (k5_xxreal_3 k2_xxreal_0)) \quad (7)$$

Assume the following.

$$v3_membered\ k1_numbers \quad (8)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0) \Rightarrow ((v1_xxreal_0 (k5_xxreal_3\ X0)) \wedge (v1_xreal_0 (k5_xxreal_3\ X0))) \quad (9)$$

Assume the following.

$$\forall X0.(v1_xxreal_0\ X0) \Rightarrow (v1_xxreal_0 (k5_xxreal_3\ X0)) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0\ X0) \wedge (v1_xxreal_0\ X1)) \Rightarrow (v1_xxreal_0 (k1_xxreal_3\ X0\ X1)) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xxreal_0\ X0) \Rightarrow (\forall X1.(v1_xxreal_0\ X1) \Rightarrow (k6_xxreal_3\ X0\ X1 = k4_xxreal_3\ X0 (k5_xxreal_3\ X1))) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0\ X0) \wedge (v1_xxreal_0\ X1)) \Rightarrow (k4_xxreal_3\ X0\ X1 = k4_xxreal_3\ X1\ X0) \quad (13)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0) \Rightarrow (v1_xxreal_0\ X0) \quad (14)$$

Assume the following.

$$\forall X0.(v3_membered\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ X0) \Rightarrow (v1_xreal_0\ X1)) \quad (15)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xxreal_0\ X0) \Rightarrow (\forall X1.(v1_xxreal_0\ X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0\ X2) \Rightarrow (((X0 \in k1_numbers) \wedge (X1 \in k1_numbers)) \vee (X2 \in \\ & k1_numbers)) \Rightarrow (k6_xxreal_3 (k1_xxreal_3\ X0\ X1)\ X2 = k1_xxreal_3 \\ & (k6_xxreal_3\ X0\ X2) (k6_xxreal_3\ X1\ X2)))) \end{aligned}$$