

t80_funct_7

(TMPEyvC9PCb1eyNsEvoA6bteW8Dvm5bFctq)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k9_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v2_xreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg(v1_xboole_0 X0) \wedge ((X0 \neq X1) \wedge (v1_xboole_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. (m1_subset_1 X1 k5_numbers) \Rightarrow (\forall X2. (v1_relat_1 X2) \Rightarrow (k3_relat_1 (k9_funct_7 X2 X0) (k9_funct_7 X2 X1) = k9_funct_7 X2 (k2_nat_1 X1 X0)))) \quad (2)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow ((r1_tarski (k10_xtuple_0 X0) (k9_xtuple_0 X0)) \Rightarrow ((k9_xtuple_0 (k9_funct_7 X0 X1) = k9_xtuple_0 X0) \wedge (r1_tarski (k10_xtuple_0 (k9_funct_7 X0 X1)) (k9_xtuple_0 X0)))))) \quad (3)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (k9_funct_7 X0 np_1 = X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (5)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (v1_relat_1 X1) \Rightarrow (\forall X2. (v1_relat_1 X2) \Rightarrow (k3_relat_1 (k3_relat_1 X0 X1) X2 = k3_relat_1 X0 (k3_relat_1 X1 X2)))) \quad (6)$$

Assume the following.

$$\forall X0.r1_tarSKI\ k1_xboole_0\ X0 \quad (7)$$

Assume the following.

$$m1_subset_1\ k1_xboole_0\ k4_ordinal1 \quad (8)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \quad (9)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (10)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (11)$$

Assume the following.

$$\exists X0.v1_xboole_0\ X0 \quad (12)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0\ X0) \wedge (v1_relat_1\ X0)) \Rightarrow (\neg v1_xboole_0\ (k9_xtuple_0\ X0)) \quad (13)$$

Assume the following.

$$\forall X0.(v1_xboole_0\ X0) \Rightarrow (v1_xboole_0\ (k10_xtuple_0\ X0)) \quad (14)$$

Assume the following.

$$v1_xboole_0\ k1_xboole_0 \quad (15)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xboole_0\ X0) \wedge (v1_relat_1\ X1)) \Rightarrow ((v1_xboole_0\ (k3_relat_1\ X0\ X1)) \wedge (v1_relat_1\ (k3_relat_1\ X0\ X1))) \quad (16)$$

Assume the following.

$$\forall X0.(v1_xboole_0\ X0) \Rightarrow (v1_xboole_0\ (k9_xtuple_0\ X0)) \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1\ X0) \wedge (v7_ordinal1\ X1)) \Rightarrow (v1_relat_1\ (k9_funct_7\ X0\ X1)) \quad (18)$$

Assume the following.

$$\forall X0.\forall X1.v1_relat_1\ (k3_relat_1\ X0\ X1) \quad (19)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (20)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v1_relat_1 X0) \quad (21)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (k9_funct_7 k1_xboole_0 X0 = k1_xboole_0)$$