

t18_radix_1 (TMUYh-
BGNCDq7R63DfYRMnbTEbSGfXXoECth)

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Let $k11_radix_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$(m2_subset_1 np_0 k1_numbers k5_numbers) \wedge ((m1_subset_1 np_0 k5_numbers) \wedge (m1_subset_1 np_0 k1_numbers)) \quad (2)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (3)$$

Assume the following.

$$r1_xxreal_0 (k4_xcmplx_0 np_2) np_0 \quad (4)$$

Assume the following.

$$r1_xxreal_0 np_0 np_2 \quad (5)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (6)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_int_1 X0) \Rightarrow & (((\neg r1_xreal_0 X0 \ np_2) \Rightarrow (k11_radix_1 \\ X0 = np_1)) \wedge & (((\neg r1_xreal_0 (k4_xcmplx_0 \ np_2) X0) \Rightarrow (k11_radix_1 \\ X0 = k4_xcmplx_0 \ np_1)) \wedge & (((r1_xreal_0 X0 \ np_2) \wedge (r1_xreal_0 \\ (k4_xcmplx_0 \ np_2) X0)) \Rightarrow & (k11_radix_1 X0 = k6_numbers)))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.((v3_ordinal1 X0) \wedge (v1_finset_1 X0)) \Rightarrow (v7_ordinal1 X0) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 \ k4_ordinal1) \Rightarrow (v1_finset_1 X0) \quad (10)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_int_1 X0) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v1_card_1 X0) \quad (12)$$

Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (v3_ordinal1 X0) \quad (13)$$

Theorem 1 $k11_radix_1 \ k6_numbers = k6_numbers.$