

t12_radix_3
(TMQAhS3tkUeuPXz1j8q7qtgRyokc3RjuZ6E)

October 27, 2020

Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_radix_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_0 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_radix_1 : \iota \Rightarrow \iota$ be given. Let $k7_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$v1_xboole_0 np_0 \quad (2)$$

Assume the following.

$$r1_xxreal_0 (k4_xcmplx_0 np_1) (k4_xcmplx_0 np_1) \quad (3)$$

Assume the following.

$$r1_xxreal_0 (k4_xcmplx_0 np_1) np_1 \quad (4)$$

Assume the following.

$$r1_xxreal_0 (k4_xcmplx_0 np_1) np_0 \quad (5)$$

Assume the following.

$$r1_xxreal_0 np_1 np_1 \quad (6)$$

Assume the following.

$$r1_xxreal_0 np_0 np_1 \quad (7)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (8)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (((r1_xxreal_0 \\
& (k1_radix_1 (k7_nat_d X1 np_1)) X0) \Rightarrow (k5_radix_3 X0 X1 = np_1)) \wedge \\
& (((\neg r1_xxreal_0 (k4_xcmplx_0 (k1_radix_1 (k7_nat_d X1 np_1)))) \\
& X0) \Rightarrow (k5_radix_3 X0 X1 = k4_xcmplx_0 np_1)) \wedge ((r1_xxreal_0 (k4_xcmplx_0 \\
& (k1_radix_1 (k7_nat_d X1 np_1))) X0) \Rightarrow ((r1_xxreal_0 (k1_radix_1 \\
& (k7_nat_d X1 np_1)) X0) \vee (k5_radix_3 X0 X1 = k6_numbers))))))
\end{aligned} \tag{9}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((r1_xxreal_0 \\
& (k4_xcmplx_0 np_1) (k5_radix_3 X0 X1)) \wedge (r1_xxreal_0 (k5_radix_3 \\
& X0 X1) np_1))
\end{aligned}$$