

l1_integra8

(TMLvAAz4L79R9fhfvmsEs88c3qTjEkwke5KP)

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Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_sin_cos : \iota \Rightarrow \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $np_4 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k21_sin_cos : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_sin_cos : \iota$ be given. Let $k19_sin_cos : \iota$ be given. Let $k6_sin_cos9 : \iota \Rightarrow \iota$ be given. Let $k2_sin_cos9 : \iota$ be given. Let $k5_sin_cos9 : \iota \Rightarrow \iota$ be given. Let $k1_sin_cos9 : \iota$ be given. Let $k7_square_1 : \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k31_sin_cos : \iota$ be given. Let $k20_sin_cos : \iota \Rightarrow \iota$ be given. Let $k17_sin_cos : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & (k21_sin_cos (k10_real_1 k32_sin_cos np_2) = k6_numbers) \wedge (\\
 & k18_sin_cos (k10_real_1 k32_sin_cos np_2) = np_1) \wedge ((k21_sin_cos \\
 & k32_sin_cos = k1_real_1 np_1) \wedge ((k18_sin_cos k32_sin_cos = k6_numbers) \wedge \\
 & ((k21_sin_cos (k7_real_1 k32_sin_cos (k10_real_1 k32_sin_cos \\
 & np_2)) = k6_numbers) \wedge ((k18_sin_cos (k7_real_1 k32_sin_cos (\\
 & k10_real_1 k32_sin_cos np_2)) = k1_real_1 np_1) \wedge ((k21_sin_cos \\
 & (k8_real_1 np_2 k32_sin_cos) = np_1) \wedge (k18_sin_cos (k8_real_1 \\
 & np_2 k32_sin_cos) = k6_numbers))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & k1_seq_1 k16_sin_cos (k10_real_1 k32_sin_cos np_4) = k1_seq_1 \\
 & k19_sin_cos (k10_real_1 k32_sin_cos np_4)
 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
 & (k6_sin_cos9 k6_numbers = k10_real_1 k32_sin_cos np_2) \wedge (k1_seq_1 \\
 & k2_sin_cos9 k6_numbers = k10_real_1 k32_sin_cos np_2)
 \end{aligned} \tag{3}$$

Assume the following.

$$(k6_sin_cos9\ np_1 = k10_real_1\ k32_sin_cos\ np_4) \wedge (k1_seq_1\ k2_sin_cos9\ np_1 = k10_real_1\ k32_sin_cos\ np_4) \quad (4)$$

Assume the following.

$$(k5_sin_cos9\ np_1 = k10_real_1\ k32_sin_cos\ np_4) \wedge (k1_seq_1\ k1_sin_cos9\ np_1 = k10_real_1\ k32_sin_cos\ np_4) \quad (5)$$

Assume the following.

$$(k5_sin_cos9\ (k1_real_1\ np_1) = k1_real_1\ (k10_real_1\ k32_sin_cos\ np_4)) \wedge (k1_seq_1\ k1_sin_cos9\ (k1_real_1\ np_1) = k1_real_1\ (k10_real_1\ k32_sin_cos\ np_4)) \quad (6)$$

Assume the following.

$$\begin{aligned} & (k1_seq_1\ k16_sin_cos\ (k1_real_1\ (k10_real_1\ k32_sin_cos\ np_4)) = \\ & k1_real_1\ (k10_real_1\ np_1\ (k7_square_1\ np_2))) \wedge ((k1_seq_1\ k19_sin_cos\ (k1_real_1\ (k10_real_1\ k32_sin_cos\ np_4)) = k10_real_1 \\ & np_1\ (k7_square_1\ np_2)) \wedge ((k1_seq_1\ k16_sin_cos\ (k8_real_1 \\ & (k10_real_1\ np_3\ np_4)\ k32_sin_cos) = k10_real_1\ np_1\ (k7_square_1\ np_2)) \wedge (k1_seq_1\ k19_sin_cos\ (k8_real_1\ (k10_real_1\ np_3\ np_4)\ k32_sin_cos) = k1_real_1\ (k10_real_1\ np_1\ (k7_square_1\ np_2)))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & (k1_seq_1\ k16_sin_cos\ (k10_real_1\ k32_sin_cos\ np_4) = k10_real_1 \\ & np_1\ (k7_square_1\ np_2)) \wedge (k1_seq_1\ k19_sin_cos\ (k10_real_1 \\ & k32_sin_cos\ np_4) = k10_real_1\ np_1\ (k7_square_1\ np_2)) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0. (v1_xreal_0\ X0) \Rightarrow (\neg (X0 \in k2_rcomp_1\ (k1_real_1\ (k10_real_1\ k32_sin_cos\ np_2))\ (k10_real_1\ k32_sin_cos\ np_2)) \wedge (r1_xxreal_0\ (k1_seq_1\ k19_sin_cos\ X0)\ k6_numbers)) \quad (9)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_4) \wedge (m2_subset_1\ np_4\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_4\ k5_numbers) \wedge (m1_subset_1\ np_4\ k1_numbers)) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \quad (11)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (12)$$

Assume the following.

$$k32_sin_cos = k31_sin_cos \quad (13)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (k21_sin_cos X0 = k20_sin_cos X0) \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (k18_sin_cos X0 = k17_sin_cos X0) \quad (15)$$

Assume the following.

$$k1_real_1 (k10_real_1 k32_sin_cos np_4) \in k2_rcomp_1 (k1_real_1 (k10_real_1 k32_sin_cos np_2)) (k10_real_1 k32_sin_cos np_2) \quad (16)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (m1_subset_1 (k5_sin_cos9 X0) k1_numbers) \quad (17)$$

Assume the following.

$$m1_subset_1 k32_sin_cos k1_numbers \quad (18)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (m1_subset_1 (k21_sin_cos X0) k1_numbers) \quad (19)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers) \wedge (v1_xreal_0 X1)) \Rightarrow (m1_subset_1 (k10_real_1 X0 X1) k1_numbers) \quad (20)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (k20_sin_cos X0 = k1_seq_1 k19_sin_cos X0) \quad (21)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (k17_sin_cos X0 = k1_seq_1 k16_sin_cos X0) \quad (22)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (23)$$

Theorem 1 $\neg r1_xreal_0 (k18_sin_cos (k10_real_1 k32_sin_cos np_4)) k6_numbers$.