

t11_integra8

(TMaco1nRSGUCP5Gb9Dqjgaq1HydqXjJa5un)

October 27, 2020

Let $k3_sin_cos6 : \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_square_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $np_4 : \iota$ be given. Let $k18_sin_cos : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17_sin_cos : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k4_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_sin_cos6 : \iota \Rightarrow \iota$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_sin_cos6 : \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Assume the following.

$$k18_sin_cos (k1_real_1 (k10_real_1 k32_sin_cos np_4)) = k1_real_1 (k10_real_1 (k7_square_1 np_2) np_2) \quad (1)$$

Assume the following.

$$k18_sin_cos (k10_real_1 k32_sin_cos np_4) = k10_real_1 (k7_square_1 np_2) np_2 \quad (2)$$

Assume the following.

$$k3_sin_cos6 np_1 = k10_real_1 k32_sin_cos np_2 \quad (3)$$

Assume the following.

$$k3_sin_cos6 (k1_real_1 np_1) = k1_real_1 (k10_real_1 k32_sin_cos np_2) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (((r1_xxreal_0 (k1_real_1 (k10_real_1 k32_sin_cos np_2)) X0) \wedge (r1_xxreal_0 X0 (k10_real_1 k32_sin_cos np_2))) \Rightarrow (k3_sin_cos6 (k17_sin_cos X0) = X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2.(v1_xxreal_0 X2) \Rightarrow ((X0 \in k4_xxreal_1 X1 X2) \Leftrightarrow ((\neg r1_xxreal_0 X0 X1) \wedge (\neg r1_xxreal_0 X2 X0)))))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (7)$$

Assume the following.

$$\forall X0.k3_sin_cos6 X0 = k2_sin_cos6 X0 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (k2_rcomp_1 X0 X1 = k4_xxreal_1 X0 X1) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (k18_sin_cos X0 = k17_sin_cos X0) \quad (10)$$

Assume the following.

$$k1_real_1 (k10_real_1 k32_sin_cos np_4) \in k2_rcomp_1 (k1_real_1 (k10_real_1 k32_sin_cos np_2)) (k10_real_1 k32_sin_cos np_2) \quad (11)$$

Assume the following.

$$v3_membered k1_numbers \quad (12)$$

Assume the following.

$$\forall X0.m1_subset_1 (k3_sin_cos6 X0) k1_numbers \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (m1_subset_1 (k2_rcomp_1 X0 X1) (k1_zfmisc_1 k1_numbers)) \quad (14)$$

Assume the following.

$$\forall X0.k2_sin_cos6 X0 = k1_seq_1 k1_sin_cos6 X0 \quad (15)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow ((r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0)) \quad (16)$$

Assume the following.

$$\forall X0.(v3_membered X0) \Rightarrow (v2_membered X0) \quad (17)$$

Assume the following.

$$\forall X0.(v3_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v1_xxreal_0 X1)) \quad (18)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v1_xxreal_0 X1)) \quad (19)$$

Theorem 1

$$k3_sin_cos6 (k1_real_1 (k10_real_1 (k7_square_1 np_2) np_2)) = \\ k1_real_1 (k10_real_1 k32_sin_cos np_4)$$