

t100_sin_cos6

(TMaAUfTzjvTzKhHSy14kh8NxEnwhX1TkG5T)

October 27, 2020

Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_sin_cos6 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ 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 $k5_sin_cos6 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_sin_cos6 : \iota$ be given. Let $v3_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & (((r1_xxreal_0 (k1_real_1 np_1) \\ X0) \wedge (r1_xxreal_0 X0 np_1)) \Rightarrow & ((r1_xxreal_0 k6_numbers (k6_sin_cos6 \\ X0) \wedge (r1_xxreal_0 (k6_sin_cos6 X0) k32_sin_cos))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & (((r1_xxreal_0 (k1_real_1 np_1) \\ X0) \wedge ((r1_xxreal_0 X0 np_1) \wedge & (k6_sin_cos6 X0 = k32_sin_cos))) \Rightarrow \\ (X0 = k1_real_1 np_1)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & (((r1_xxreal_0 (k1_real_1 np_1) \\ X0) \wedge ((r1_xxreal_0 X0 np_1) \wedge & (k6_sin_cos6 X0 = k6_numbers))) \Rightarrow \\ (X0 = np_1)) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\neg(k6_numbers \neq X0) \wedge (r1_xxreal_0 X0 k6_numbers)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 \ X0) \wedge (v1_xxreal_0 \ X1)) \Rightarrow (r1_xxreal_0 \ X0 \ X0) \quad (7)$$

Assume the following.

$$\forall X0. k6_sin_cos6 \ X0 = k5_sin_cos6 \ X0 \quad (8)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (9)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (k1_real_1 \ X0 = k4_xcmplx_0 \ X0) \quad (10)$$

Assume the following.

$$\exists X0. (v1_xboole_0 \ X0) \wedge (v1_xxreal_0 \ X0) \quad (11)$$

Assume the following.

$$\forall X0. (v1_xreal_0 \ X0) \Rightarrow ((v1_xcmplx_0 \ (k4_xcmplx_0 \ X0)) \wedge (v1_xreal_0 \ (k4_xcmplx_0 \ X0))) \quad (12)$$

Assume the following.

$$\forall X0. m1_subset_1 \ (k6_sin_cos6 \ X0) \ k1_numbers \quad (13)$$

Assume the following.

$$m1_subset_1 \ k32_sin_cos \ k1_numbers \quad (14)$$

Assume the following.

$$\forall X0. (v1_xxreal_0 \ X0) \Rightarrow ((v2_xxreal_0 \ X0) \Leftrightarrow (\neg r1_xxreal_0 \ X0 \ k6_numbers)) \quad (15)$$

Assume the following.

$$\forall X0. k5_sin_cos6 \ X0 = k1_seq_1 \ k4_sin_cos6 \ X0 \quad (16)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 \ X0) \wedge (v1_xxreal_0 \ X1)) \Rightarrow (r1_xxreal_0 \ X0 \ X1) \vee (r1_xxreal_0 \ X1 \ X0) \quad (17)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v7_ordinal1 X0) \quad (18)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xxreal_0 X0) \quad (19)$$

Assume the following.

$$\forall X0.((v1_xxreal_0 X0) \wedge (v2_xxreal_0 X0)) \Rightarrow ((\neg v1_xboole_0 X0) \wedge ((v1_xxreal_0 X0) \wedge (\neg v3_xxreal_0 X0))) \quad (20)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (21)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\neg(\neg r1_xxreal_0 X0 (k1_real_1 np_1))) \wedge ((\neg r1_xxreal_0 np_1 X0) \wedge (\neg(\neg r1_xxreal_0 (k6_sin_cos6 X0) k6_numbers) \wedge (\neg r1_xxreal_0 k32_sin_cos (k6_sin_cos6 X0))))))$$