

t77_sin_cos6

(TMS2GXGZF1PvsdcYZPaG711VHgSZsX4iXCK)

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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 $k3_sin_cos6 : \iota \Rightarrow \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_comptrig : \iota \Rightarrow \iota$ be given. Let $k7_complex1 : \iota$ 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. Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & (((r1_xxreal_0 (k1_real_1 np_1) \\ X0) \wedge (r1_xxreal_0 X0 np_1)) \Rightarrow & ((r1_xxreal_0 (k1_real_1 (k10_real_1 \\ k32_sin_cos np_2)) (k3_sin_cos6 X0)) \wedge & (r1_xxreal_0 (k3_sin_cos6 \\ X0) (k10_real_1 k32_sin_cos np_2)))) & \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & (((r1_xxreal_0 (k1_real_1 np_1) \\ X0) \wedge ((r1_xxreal_0 X0 np_1) \wedge & (k3_sin_cos6 X0 = k10_real_1 k32_sin_cos \\ np_2))) \Rightarrow & (X0 = np_1)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & (((r1_xxreal_0 (k1_real_1 np_1) \\ X0) \wedge ((r1_xxreal_0 X0 np_1) \wedge & (k3_sin_cos6 X0 = k1_real_1 (k10_real_1 \\ k32_sin_cos np_2)))) \Rightarrow & (X0 = k1_real_1 np_1)) \end{aligned} \quad (3)$$

Assume the following.

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

Assume the following.

$$k1_comptrig k7_complex1 = k10_real_1 k32_sin_cos np_2 \quad (5)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (6)$$

Assume the following.

$$((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (7)$$

Assume the following.

$$\forall X0.m1_subset_1 (k3_sin_cos6 X0) k1_numbers \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (m1_subset_1 (k1_real_1 X0) k1_numbers) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow ((r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0)) \quad (10)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xxreal_0 X0) \quad (11)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (12)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\neg(\neg r1_xxreal_0 X0 (k1_real_1 np_1)) \wedge ((\neg r1_xxreal_0 np_1 X0) \wedge (\neg(\neg r1_xxreal_0 (k3_sin_cos6 X0) (k1_real_1 (k10_real_1 k32_sin_cos np_2)))) \wedge (\neg r1_xxreal_0 (k10_real_1 k32_sin_cos np_2) (k3_sin_cos6 X0))))))$$