

t110_sin_cos6 (TMFJRprBFp-
mqKu9jWPyBWXBKsFh3DBGtVNV)

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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 $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_sin_cos6 : \iota \Rightarrow \iota$ be given. Let $k3_sin_cos6 : \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ 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 $v2_xxreal_0 : \iota \Rightarrow o$ 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 $k31_sin_cos : \iota$ 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. Assume the following.

$$k3_sin_cos6 \ np_1 = k10_real_1 \ k32_sin_cos \ np_2 \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal_0 \ X0) \Rightarrow (\forall X1.(v1_xreal_0 \ X1) \Rightarrow ((r1_xxreal_0 \ X0 \ X1) \Leftrightarrow (r1_xxreal_0 \ (k4_xcmplx_0 \ X1) \ (k4_xcmplx_0 \ X0)))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 \ X0) \Rightarrow (((r1_xxreal_0 \ (k1_real_1 \ np_1) \ X0) \wedge (r1_xxreal_0 \ X0 \ np_1)) \Rightarrow (k9_real_1 \ (k6_sin_cos6 \ (k4_xcmplx_0 \ X0)) \ (k3_sin_cos6 \ X0) = k10_real_1 \ k32_sin_cos \ np_2)) \quad (3)$$

Assume the following.

$$((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \quad (4)$$

Assume the following.

$$k4_xcmplx_0 \ (k4_xcmplx_0 \ np_1) = np_1 \quad (5)$$

Assume the following.

$$\forall X0.k6_sin_cos6 \ X0 = k5_sin_cos6 \ X0 \quad (6)$$

Assume the following.

$$k32_sin_cos = k31_sin_cos \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (k1_real_1 X0 = k4_xcmplx_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k4_xcmplx_0 (k4_xcmplx_0 X0) = X0) \quad (9)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow ((v1_xcmplx_0 (k4_xcmplx_0 X0)) \wedge (v1_xreal_0 (k4_xcmplx_0 X0))) \quad (10)$$

Assume the following.

$$\forall X0.k5_sin_cos6 X0 = k1_seq_1 k4_sin_cos6 X0 \quad (11)$$

Assume the following.

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

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (13)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (((r1_xreal_0 (k1_real_1 np_1) X0) \wedge (r1_xreal_0 X0 np_1)) \Rightarrow (k9_real_1 (k6_sin_cos6 X0) (k3_sin_cos6 (k4_xcmplx_0 X0)) = k10_real_1 k32_sin_cos np_2))$$