

l8_sin_cos6

(TMH2DvkYHKQxTUQmGSPPX6JTMMmrYLdN7ex)

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Let $k1_{rcomp_1} : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_{real_1} : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k8_{real_1} : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_{numbers} : \iota$ be given. Let $np_3 : \iota$ be given. Let $v1_{xcmplx_0} : \iota \Rightarrow o$ be given. Let $k3_{xcmplx_0} : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_{subset_1} : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_{xboole_0} : \iota$ be given. Let $k4_{ordinal1} : \iota$ be given. Let $k2_{xcmplx_0} : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v1_{xreal_0} : \iota \Rightarrow o$ be given. Let $v6_{membered} : \iota \Rightarrow o$ be given. Let $v1_{int_1} : \iota \Rightarrow o$ be given. Let $v5_{membered} : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_{xcmplx_0} X0) \Rightarrow (k3_{xcmplx_0} X0 \ k6_{numbers} = k6_{numbers}) \quad (1)$$

Assume the following.

$$m1_{subset_1} \ k1_{xboole_0} \ k4_{ordinal1} \quad (2)$$

Assume the following.

$$\forall X0.(v1_{xcmplx_0} X0) \Rightarrow (k2_{xcmplx_0} X0 \ k6_{numbers} = X0) \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_{xxreal_0} \ np_3) \wedge (m2_{subset_1} \ np_3 \ k1_{numbers} \ k5_{numbers})) \wedge \\ & ((m1_{subset_1} \ np_3 \ k5_{numbers}) \wedge (m1_{subset_1} \ np_3 \ k1_{numbers})) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2_{xxreal_0} \ np_2) \wedge (m2_{subset_1} \ np_2 \ k1_{numbers} \ k5_{numbers})) \wedge \\ & ((m1_{subset_1} \ np_2 \ k5_{numbers}) \wedge (m1_{subset_1} \ np_2 \ k1_{numbers})) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_{subset_1} \ X0 \ k1_{numbers}) \wedge (v1_{xreal_0} \ X1)) \Rightarrow (k8_{real_1} \ X0 \ X1 = k3_{xcmplx_0} \ X0 \ X1) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers)\wedge(v1_xreal_0 X1))\Rightarrow(k7_real_1 X0 X1 = k2_xcmplx_0 X0 X1) \quad (7)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (8)$$

Assume the following.

$$v6_membered k4_ordinal1 \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers)\wedge(v1_xreal_0 X1))\Rightarrow(m1_subset_1 (k8_real_1 X0 X1) k1_numbers) \quad (10)$$

Assume the following.

$$m1_subset_1 k32_sin_cos k1_numbers \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers)\wedge(v1_xreal_0 X1))\Rightarrow(m1_subset_1 (k10_real_1 X0 X1) k1_numbers) \quad (12)$$

Assume the following.

$$\forall X0.(v1_int_1 X0)\Rightarrow(v1_xreal_0 X0) \quad (13)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers)\Rightarrow(v1_xreal_0 X0) \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers)\Rightarrow(v1_xcmplx_0 X0) \quad (15)$$

Assume the following.

$$\forall X0.(v6_membered X0)\Rightarrow(v5_membered X0) \quad (16)$$

Assume the following.

$$\forall X0.(v5_membered X0)\Rightarrow(\forall X1.(m1_subset_1 X1 X0)\Rightarrow(v1_int_1 X1)) \quad (17)$$

Theorem 1

$$k1_rcomp_1 (k7_real_1 (k10_real_1 k32_sin_cos np_2) (k8_real_1 (k8_real_1 np_2 k32_sin_cos) k6_numbers)) (k7_real_1 (k8_real_1 (k10_real_1 np_3 np_2) k32_sin_cos) (k8_real_1 (k8_real_1 np_2 k32_sin_cos) k6_numbers)) = k1_rcomp_1 (k10_real_1 k32_sin_cos np_2) (k8_real_1 (k10_real_1 np_3 np_2) k32_sin_cos)$$