

t1_sin_cos8 (TMLexnLqrG-
wDxW4rUV2P5cw6EpVZZNh289D)

October 27, 2020

Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k9_sin_cos2 : \iota \Rightarrow \iota$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_sin_cos2 : \iota \Rightarrow \iota$ be given. Let $k6_sin_cos2 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_sin_cos2 : \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_sin_cos2 : \iota$ be given. Let $k4_sin_cos2 : \iota$ be given. Let $k8_sin_cos2 : \iota \Rightarrow \iota$ be given. Let $k5_sin_cos2 : \iota \Rightarrow \iota$ be given. Let $k2_sin_cos2 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k7_xcmplx_0 k6_numbers X0 = k6_numbers) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (k1_seq_1 k7_sin_cos2 X0 = k10_real_1 (k1_seq_1 k1_sin_cos2 X0) (k1_seq_1 k4_sin_cos2 X0)) \quad (2)$$

Assume the following.

$$k1_seq_1 k1_sin_cos2 k6_numbers = k6_numbers \quad (3)$$

Assume the following.

$$\forall X0.k9_sin_cos2 X0 = k8_sin_cos2 X0 \quad (4)$$

Assume the following.

$$\forall X0.k6_sin_cos2 X0 = k5_sin_cos2 X0 \quad (5)$$

Assume the following.

$$\forall X0.k3_sin_cos2 X0 = k2_sin_cos2 X0 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers) \wedge (v1_xreal_0 X1)) \Rightarrow (k10_real_1 X0 X1 = k7_xcmplx_0 X0 X1) \quad (7)$$

Assume the following.

$$\forall X0.m1_subset_1 (k6_sin_cos2 X0) k1_numbers \quad (8)$$

Assume the following.

$$\forall X0.m1_subset_1 (k3_sin_cos2 X0) k1_numbers \quad (9)$$

Assume the following.

$$\forall X0.k8_sin_cos2 X0 = k1_seq_1 k7_sin_cos2 X0 \quad (10)$$

Assume the following.

$$\forall X0.k5_sin_cos2 X0 = k1_seq_1 k4_sin_cos2 X0 \quad (11)$$

Assume the following.

$$\forall X0.k2_sin_cos2 X0 = k1_seq_1 k1_sin_cos2 X0 \quad (12)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (13)$$

Assume the following.

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

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow ((k9_sin_cos2 X0 = k7_xcmplx_0 (k3_sin_cos2 X0) (k6_sin_cos2 X0)) \wedge (k9_sin_cos2 k6_numbers = k6_numbers))$$