

t26_sin_cos
(TMP3Vckntkg1B325WnraAFN2VSF1EeoZCdr)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k15_complex1 : \iota \Rightarrow \iota$ be given. Let $k15_sin_cos : \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_complex1 : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k1_xcmplx_0 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k14_sin_cos : \iota \Rightarrow \iota$ be given. Let $k11_comseq_3 : \iota \Rightarrow \iota$ be given. Let $k3_sin_cos : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k13_sin_cos : \iota$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$k7_complex1 = k1_xcmplx_0 \tag{1}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k15_sin_cos X0 = k14_sin_cos X0) \tag{2}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (k15_complex1 (k11_comseq_3 (k3_sin_cos (k3_xcmplx_0 X0 k7_complex1))) = k11_comseq_3 (k3_sin_cos (k4_xcmplx_0 (k3_xcmplx_0 X0 k7_complex1)))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (v1_xcmplx_0 (k3_xcmplx_0 X0 X1)) \tag{4}$$

Assume the following.

$$v1_xcmplx_0 k1_xcmplx_0 \tag{5}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (v1_xcmplx_0 (k4_xcmplx_0 X0)) \tag{6}$$

Assume the following.

$$(v1_funct_1\ k13_sin_cos) \wedge ((v1_funct_2\ k13_sin_cos\ k2_numbers\ k2_numbers) \wedge (m1_subset_1\ k13_sin_cos\ (k1_zfmisc_1\ (k2_zfmisc_1\ k2_numbers\ k2_numbers)))) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0\ X0) \Rightarrow (k14_sin_cos\ X0 = k1_funct_1\ k13_sin_cos\ X0) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_funct_1\ X0) \wedge ((v1_funct_2\ X0\ k2_numbers\ k2_numbers) \wedge \\ (m1_subset_1\ X0\ (k1_zfmisc_1\ (k2_zfmisc_1\ k2_numbers\ k2_numbers)))) \Rightarrow \\ ((X0 = k13_sin_cos) \Leftrightarrow (\forall X1.(v1_xcmplx_0\ X1) \Rightarrow (k1_funct_1 \\ X0\ X1 = k11_comseq_3\ (k3_sin_cos\ X1)))) \quad (9) \end{aligned}$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (v1_xcmplx_0\ X0) \quad (10)$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (k15_complex1\ (k15_sin_cos\ (k3_xcmplx_0\ X0\ k7_complex1)) = k15_sin_cos\ (k4_xcmplx_0\ (k3_xcmplx_0\ X0\ k7_complex1)))$$