

t24_sin_cos3

(TMR1b9qPhUY59oW6nqLTV4t39sCZxCGXvLx)

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Let $k10_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_numbers : \iota$ be given. Let $k4_sin_cos3 : \iota$ be given. Let $k5_complex1 : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k2_sin_cos3 : \iota$ be given. Let $k5_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_complex1 : \iota$ be given. Let $k1_xcmplx_0 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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.

$$k10_funct_2 \ k2_numbers \ k2_numbers \ k2_sin_cos3 \ k5_complex1 = np_1 \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k10_funct_2 \ k2_numbers \ k2_numbers \ k4_sin_cos3 \ (k5_binop_2 \ k7_complex1 \ X0) = k10_funct_2 \ k2_numbers \ k2_numbers \ k2_sin_cos3 \ X0) \quad (3)$$

Assume the following.

$$k7_complex1 = k1_xcmplx_0 \quad (4)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (5)$$

Assume the following.

$$k5_complex1 = k1_xboole_0 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (k5_binop_2 X0 X1 = k3_xcmplx_0 X0 X1) \quad (7)$$

Assume the following.

$$v1_xcmplx_0 \ k1_xcmplx_0 \tag{8}$$

Assume the following.

$$m1_subset_1 \ k5_complex1 \ k2_numbers \tag{9}$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k2_numbers) \Rightarrow (v1_xcmplx_0 \ X0) \tag{10}$$

Theorem 1 $k10_funct_2 \ k2_numbers \ k2_numbers \ k4_sin_cos3 \ k5_complex1 = np_1.$