

t41_sin_cos2 (TMG-
GzWvR5UxCFLCiAjupeJG7wjmCWxbkcUy)

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Let $v1_fcont_1 : \iota \Rightarrow o$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k1_sin_cos2 : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r2_fdiff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_fdiff_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_sin_cos2 : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow ((r2_fdiff_1 k1_sin_cos2 k1_numbers) \wedge (k1_fdiff_1 k1_sin_cos2 X0 = k1_seq_1 k4_sin_cos2 X0)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow ((r2_fdiff_1 X1 X0) \Rightarrow (v1_fcont_1 (k2_partfun1 k1_numbers k1_numbers X1 X0))) \quad (2)$$

Assume the following.

$$\exists X0.(m1_subset_1 X0 k1_numbers) \wedge ((v1_xcmplx_0 X0) \wedge ((v1_xxreal_0 X0) \wedge ((v2_xxreal_0 X0) \wedge (v1_xreal_0 X0)))) \quad (3)$$

Assume the following.

$$(v1_funct_1 k1_sin_cos2) \wedge ((v1_funct_2 k1_sin_cos2 k1_numbers k1_numbers) \wedge (m1_subset_1 k1_sin_cos2 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \quad (4)$$

Theorem 1 $v1_fcont_1 (k2_partfun1 k1_numbers k1_numbers k1_sin_cos2 k1_numbers)$.