

t66_sincos10

(TMYH7WHYhBMNL7FmLRAtSCpAgnQ83V5VKuJ)

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Let $k1_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_fdiff_9 : \iota$ be given. Let $k4_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k2_sincos10 : \iota$ be given. Let $k1_partfun2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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. Assume the following.

$$k3_relat_1 (k2_partfun1 k1_numbers k1_numbers k1_fdiff_9 (k4_rcomp_1 (k10_real_1 k32_sin_cos np_2) k32_sin_cos)) k2_sincos10 = k1_partfun2 k1_numbers (k4_rcomp_1 (k10_real_1 k32_sin_cos np_2) k32_sin_cos) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. (((v1_funct_1 X4) \wedge (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \wedge ((v1_funct_1 X5) \wedge (m1_subset_1 X5 (k1_zfmisc_1 (k2_zfmisc_1 X2 X3)))) \Rightarrow (k1_partfun1 X0 X1 X2 X3 X4 X5 = k3_relat_1 X4 X5)) \quad (2)$$

Assume the following.

$$(v1_funct_1 k2_sincos10) \wedge (m1_subset_1 k2_sincos10 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3. ((v1_funct_1 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow ((v1_funct_1 (k2_partfun1 X0 X1 X2 X3)) \wedge (m1_subset_1 (k2_partfun1 X0 X1 X2 X3) (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \quad (4)$$

Assume the following.

$$(v1_funct_1 k1_fdiff_9) \wedge (m1_subset_1 k1_fdiff_9 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers))) \quad (5)$$

Theorem 1

$$\begin{aligned} &k1_partfun1\ k1_numbers\ k1_numbers\ k1_numbers\ k1_numbers\ (k2_partfun1 \\ &k1_numbers\ k1_numbers\ k1_fdiff_9\ (k4_rcomp_1\ (k10_real_1\ k32_sin_cos \\ &np_2)\ k32_sin_cos))\ k2_sincos10 = k1_partfun2\ k1_numbers\ (k4_rcomp_1 \\ &\quad (k10_real_1\ k32_sin_cos\ np_2)\ k32_sin_cos) \end{aligned}$$