

t68_sincos10
(TMFLYWShcPJoY5HkfEc8vnP9idcMQJ2JicQ)

October 27, 2020

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 $k2_fdiff_9 : \iota$ be given. Let $k4_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ 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 $k4_sincos10 : \iota$ 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. Let $k2_partfun2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$k3_relat_1 (k2_partfun1\ k1_numbers\ k1_numbers\ k2_fdiff_9\ (k4_rcomp_1\ k6_numbers\ (k10_real_1\ k32_sin_cos\ np_2)))\ k4_sincos10 = k1_partfun2\ k1_numbers\ (k4_rcomp_1\ k6_numbers\ (k10_real_1\ k32_sin_cos\ np_2)) \quad (1)$$

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.

$$(v1_funct_1\ k4_sincos10) \wedge (m1_subset_1\ k4_sincos10\ (k1_zfmisc_1\ (k2_zfmisc_1\ k1_numbers\ k1_numbers))) \quad (3)$$

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.

$$(v1_funct_1\ k2_fdiff_9) \wedge (m1_subset_1\ k2_fdiff_9\ (k1_zfmisc_1\ (k2_zfmisc_1\ k1_numbers\ k1_numbers))) \quad (5)$$

Assume the following.

$$\begin{aligned}
 k4_sincos10 = & k2_partfun2\ k1_numbers\ k1_numbers\ (k2_partfun1 \\
 & k1_numbers\ k1_numbers\ k2_fdiff_9\ (k4_rcomp_1\ k6_numbers\ (k10_real_1 \\
 & k32_sin_cos\ np_2)))
 \end{aligned}
 \tag{6}$$

Theorem 1

$$\begin{aligned}
 k1_partfun1\ k1_numbers\ k1_numbers\ k1_numbers\ k1_numbers\ (k2_partfun1 \\
 k1_numbers\ k1_numbers\ k2_fdiff_9\ (k4_rcomp_1\ k6_numbers\ (k10_real_1 \\
 k32_sin_cos\ np_2)))\ k4_sincos10 = & k1_partfun2\ k1_numbers\ (k4_rcomp_1 \\
 & k6_numbers\ (k10_real_1\ k32_sin_cos\ np_2))
 \end{aligned}$$