

t65_sin_cos6

(TMW6caLnvz32sqAcycVWKJnt8jJHzBYRsAA)

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Let $k4_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k1_sin_cos6 : \iota$ be given. Let $k5_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_sin_cos : \iota$ be given. Let $k1_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ 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 $k6_partfun1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & k3_relat_1 \ k1_sin_cos6 \ (k5_relset_1 \ k1_numbers \ k1_numbers \ k16_sin_cos \\
 & \ (k1_rcomp_1 \ (k1_real_1 \ (k10_real_1 \ k32_sin_cos \ np_2)) \ (k10_real_1 \\
 & \ k32_sin_cos \ np_2))) = k6_partfun1 \ (k1_rcomp_1 \ (k1_real_1 \ np_1) \\
 & \ np_1)
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\
 & ((m1_subset_1 \ X4 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ X0 \ X1))) \wedge (m1_subset_1 \\
 & \ X5 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ X2 \ X3)))) \Rightarrow (k4_relset_1 \ X0 \ X1 \ X2 \ X3 \\
 & \ X4 \ X5 = k3_relat_1 \ X4 \ X5)
 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. (m1_subset_1 \ X2 \ (\\
 & \ k1_zfmisc_1 \ (k2_zfmisc_1 \ X0 \ X1))) \Rightarrow (m1_subset_1 \ (k5_relset_1 \\
 & \ X0 \ X1 \ X2 \ X3) \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ X0 \ X1)))
 \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
 & (v1_funct_1 \ k1_sin_cos6) \wedge (m1_subset_1 \ k1_sin_cos6 \ (k1_zfmisc_1 \\
 & \ (k2_zfmisc_1 \ k1_numbers \ k1_numbers)))
 \end{aligned} \tag{4}$$

Assume the following.

$$(v1_funct_1\ k16_sin_cos)^\wedge((v1_funct_2\ k16_sin_cos\ k1_numbers\ k1_numbers)^\wedge(m1_subset_1\ k16_sin_cos\ (k1_zfmisc_1\ (k2_zfmisc_1\ k1_numbers\ k1_numbers)))) \quad (5)$$

Theorem 1

$$k4_relset_1\ k1_numbers\ k1_numbers\ k1_numbers\ k1_numbers\ k1_sin_cos6\ (k5_relset_1\ k1_numbers\ k1_numbers\ k16_sin_cos\ (k1_rcomp_1\ (k1_real_1\ (k10_real_1\ k32_sin_cos\ np_2)))\ (k10_real_1\ k32_sin_cos\ np_2))) = k6_partfun1\ (k1_rcomp_1\ (k1_real_1\ np_1)\ np_1)$$