

l63_sincos10

(TMN36GCDW5C8FDy2bkJqpMDXeeDzjcbKnDC)

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Let $k2_funct_1 : \iota \Rightarrow \iota$ be given. Let $k3_sincos10 : \iota$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k2_fdiff_9 : \iota$ be given. Let $k3_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k6_numbers : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ 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.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v2_funct_1 X0) \Rightarrow (k2_funct_1 (k2_funct_1 X0) = X0)) \quad (1)$$

Assume the following.

$$v2_funct_1 (k2_partfun1 k1_numbers k1_numbers k2_fdiff_9 (k3_rcomp_1 (k1_real_1 (k10_real_1 k32_sin_cos np_2)) k6_numbers)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge ((v2_funct_1 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))))) \Rightarrow (k2_partfun2 X0 X1 X2 = k2_funct_1 X2) \quad (3)$$

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.

$$\begin{aligned} k3_sincos10 = & k2_partfun2\ k1_numbers\ k1_numbers\ (k2_partfun1 \\ & k1_numbers\ k1_numbers\ k2_fdiff_9\ (k3_rcomp_1\ (k1_real_1\ (k10_real_1 \\ & k32_sin_cos\ np_2))\ k6_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1 \\ (k2_zfmisc_1\ X0\ X1))) \Rightarrow (v1_relat_1\ X2) \end{aligned} \quad (7)$$

Theorem 1

$$\begin{aligned} k2_funct_1\ k3_sincos10 = & k2_partfun1\ k1_numbers\ k1_numbers\ k2_fdiff_9 \\ & (k3_rcomp_1\ (k1_real_1\ (k10_real_1\ k32_sin_cos\ np_2))\ k6_numbers) \end{aligned}$$