

t131_sincos10 (TMJKBqHQrCdWgiwLQUT- srgVACbdajXxeUye)

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Let $v1_fcont_1 : \iota \Rightarrow o$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k3_sincos10 : \iota$ be given. Let $k7_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_fdiff_9 : \iota$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v1_funct_1 : \iota \Rightarrow o$ 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 $r2_fdiff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow ((r2_fdiff_1 X1 X0) \Rightarrow \\ & (v1_fcont_1 (k2_partfun1 k1_numbers k1_numbers X1 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & r2_fdiff_1 k3_sincos10 (k7_relset_1 k1_numbers k1_numbers k2_fdiff_9 \\ & (k2_rcomp_1 (k1_real_1 (k10_real_1 k32_sin_cos np_2)) k6_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & (v1_funct_1 k3_sincos10) \wedge (m1_subset_1 k3_sincos10 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k1_numbers k1_numbers))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & v1_fcont_1 (k2_partfun1 k1_numbers k1_numbers k3_sincos10 (k7_relset_1 \\ & k1_numbers k1_numbers k2_fdiff_9 (k2_rcomp_1 (k1_real_1 (k10_real_1 \\ & k32_sin_cos np_2)) k6_numbers))) \end{aligned}$$