

t34_sin_cos9

(TMY1E4DhBmi5fEWvQPSA7b6V5C5FePpQP2m)

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Let $k3_relat.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k30_sin_cos : \iota$ be given. Let $k2_rcomp.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $k2_sin_cos9 : \iota$ be given. Let $k1_partfun2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & k1_partfun1\ k1_numbers\ k1_numbers\ k1_numbers\ k1_numbers\ (k2_partfun1 \\ & k1_numbers\ k1_numbers\ k30_sin_cos\ (k2_rcomp.1\ k6_numbers\ k32_sin_cos)) \\ & k2_sin_cos9 = k1_partfun2\ k1_numbers\ (k2_rcomp.1\ k6_numbers\ k32_sin_cos) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ & (((v1_funct.1\ X4) \wedge (m1_subset.1\ X4\ (k1_zfmisc.1\ (k2_zfmisc.1 \\ & X0\ X1)))) \wedge ((v1_funct.1\ X5) \wedge (m1_subset.1\ X5\ (k1_zfmisc.1\ (k2_zfmisc.1 \\ & X2\ X3)))) \Rightarrow (k1_partfun1\ X0\ X1\ X2\ X3\ X4\ X5 = k3_relat.1\ X4\ X5) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & (v1_funct.1\ k30_sin_cos) \wedge (m1_subset.1\ k30_sin_cos\ (k1_zfmisc.1 \\ & (k2_zfmisc.1\ k1_numbers\ k1_numbers))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & (v1_funct.1\ k2_sin_cos9) \wedge (m1_subset.1\ k2_sin_cos9\ (k1_zfmisc.1 \\ & (k2_zfmisc.1\ k1_numbers\ k1_numbers))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((v1_funct.1\ X2) \wedge \\ & (m1_subset.1\ X2\ (k1_zfmisc.1\ (k2_zfmisc.1\ X0\ X1)))) \Rightarrow ((v1_funct.1 \\ & (k2_partfun1\ X0\ X1\ X2\ X3)) \wedge (m1_subset.1\ (k2_partfun1\ X0\ X1\ X2\ X3) \\ & (k1_zfmisc.1\ (k2_zfmisc.1\ X0\ X1)))) \end{aligned} \quad (5)$$

Theorem 1

$$k3_relat_1 (k2_partfun1 k1_numbers k1_numbers k30_sin_cos (k2_rcomp_1 \\ k6_numbers k32_sin_cos)) k2_sin_cos9 = k1_partfun2 k1_numbers \\ (k2_rcomp_1 k6_numbers k32_sin_cos)$$