t30_sin_cos9 (TMY3UR7hXYEa8ceBGuevwhpPmroswDtUW2g)

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Let $k1\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_sin\_cos9 : \iota$ be given. Let $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k30\_sin\_cos : \iota$ be given. Let $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32\_sin\_cos : \iota$ be given. Let $np\_\_4 : \iota$ be given. Let $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_3 : \iota$ 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. Assume the following.

$$k3\_relat\_1\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ k2\_sin\_cos9\ (k1\_rcomp\_1\ (k1\_real\_1\ np\_\_1)\ np\_\_1))\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ k30\_sin\_cos\ (k1\_rcomp\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4)\ (k8\_real\_1\ (k10\_real\_1\ np\_\_3\ np\_\_4)\ k32\_sin\_cos))) = k1\_partfun2\ k1\_numbers\ (k1\_rcomp\_1\ (k1\_real\_1\ np\_\_1)\ np\_\_1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\ (((v1\_funct\_1\ X4) \wedge (m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))) \wedge ((v1\_funct\_1\ X5) \wedge (m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X2\ X3))))) \Rightarrow (k1\_partfun1\ X0\ X1\ X2\ X3\ X4\ X5 = k3\_relat\_1\ X4\ X5) \tag{2}$$

Assume the following.

$$(v1\_funct\_1\ k30\_sin\_cos) \wedge (m1\_subset\_1\ k30\_sin\_cos\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))) \tag{3}$$

Assume the following.

$$(v1\_funct\_1\ k2\_sin\_cos9) \wedge (m1\_subset\_1\ k2\_sin\_cos9\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1\_funct\_1\ X2)\wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))\Rightarrow((v1\_funct\_1\ (k2\_partfun1\ X0\ X1\ X2\ X3))\wedge(m1\_subset\_1\ (k2\_partfun1\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))) \tag{5}$$

Theorem 1

$$k1\_partfun1\ k1\_numbers\ k1\_numbers\ k1\_numbers\ k1\_numbers\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ k2\_sin\_cos9\ (k1\_rcomp\_1\ (k1\_real\_1\ np\_\_1)\ np\_\_1))\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ k30\_sin\_cos\ (k1\_rcomp\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4)\ (k8\_real\_1\ (k10\_real\_1\ np\_\_3\ np\_\_4)\ k32\_sin\_cos))) = k1\_partfun2\ k1\_numbers\ (k1\_rcomp\_1\ (k1\_real\_1\ np\_\_1)\ np\_\_1)$$