l99_sincos10 (TMXxwnsfLko-HdM11yhbaYDbnKsuRbCE6bp6)

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Let $v6\_valued\_0 : \iota \Rightarrow o$ be given. Let $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k2\_fdiff\_9 : \iota$ 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 $np\_\_4 : \iota$ 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 $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \Rightarrow (((r1\_tarski\ X0\ X1) \wedge (v6\_valued\_0\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ X2\ X1))) \Rightarrow (v6\_valued\_0\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ X2\ X0))) \tag{1}$$

Assume the following.

$$v6\_valued\_0\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ k2\_fdiff\_9\ (k3\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2))\ k6\_numbers)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))) \Rightarrow (k2\_partfun1\ X0\ X1\ X2\ X3 = k5\_relat\_1\ X2\ X3) \tag{3}$$

Assume the following.

$$r1\_tarski\ (k1\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2))\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4)))\ (k3\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2))\ k6\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1\ X0)\wedge((v6\_valued\_0\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))))\Rightarrow((v1\_funct\_1\ (k5\_relat\_1\ X0\ X1))\wedge(v6\_valued\_0\ (k5\_relat\_1\ X0\ X1))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1\_funct\_1\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))\Rightarrow((v1\_funct\_1\ (k2\_partfun1\ X0\ X1\ X2\ X3))\wedge(m1\_subset\_1\ (k2\_partfun1\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))) \tag{6}$$

Assume the following.

$$(v1\_funct\_1\ k2\_fdiff\_9)\wedge(m1\_subset\_1\ k2\_fdiff\_9\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))) \tag{7}$$

Theorem 1

$$v6\_valued\_0\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ k2\_fdiff\_9\ (k1\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2))\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4))))\ (k1\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2))\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4))))$$