

# l100\_sincos10

(TMRZ3oB8kTfgrB7WqSFpx7Hjy2zvPCmSjPX)

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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  $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k32\_sin\_cos : \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $np\_2 : \iota$  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  $k4\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

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

Assume the following.

$$v6\_valued\_0 (k2\_partfun1 k1\_numbers k1\_numbers k2\_fdiff\_9 (k4\_rcomp\_1 k6\_numbers (k10\_real\_1 k32\_sin\_cos np\_2))) \quad (2)$$

Assume the following.

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

Assume the following.

$$r1\_tarski (k1\_rcomp\_1 (k10\_real\_1 k32\_sin\_cos np\_4) (k10\_real\_1 k32\_sin\_cos np\_2)) (k4\_rcomp\_1 k6\_numbers (k10\_real\_1 k32\_sin\_cos np\_2)) \quad (4)$$

Assume the following.

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

Assume the following.

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

Assume the following.

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

**Theorem 1**

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