

# l102\_sincos10

(TMdhc6tRfrr6ADfjHzKZCQgWBCtzMRSHTQh)

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Let  $v2\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_fdiff\_9 : \iota$  be given. Let  $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $k32\_sin\_cos : \iota$  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  $v5\_valued\_0 : \iota \Rightarrow o$  be given. Let  $v6\_valued\_0 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 k1\_numbers k1\_numbers)))) \Rightarrow (((v5\_valued\_0 (k2\_partfun1 \\ & k1\_numbers k1\_numbers X1 X0)) \vee (v6\_valued\_0 (k2\_partfun1 k1\_numbers \\ & k1\_numbers X1 X0))) \Rightarrow (v2\_funct\_1 (k2\_partfun1 k1\_numbers k1\_numbers \\ & X1 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1\_funct\_1 X2) \wedge (m1\_subset\_1 \\ & X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers)))) \Rightarrow (((r1\_tarski \\ & X0 X1) \wedge (v5\_valued\_0 (k2\_partfun1 k1\_numbers k1\_numbers X2 X1))) \Rightarrow \\ & (v5\_valued\_0 (k2\_partfun1 k1\_numbers k1\_numbers X2 X0))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & v5\_valued\_0 (k2\_partfun1 k1\_numbers k1\_numbers k1\_fdiff\_9 (k4\_rcomp\_1 \\ & (k10\_real\_1 k32\_sin\_cos np\_2) k32\_sin\_cos)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & r1\_tarski (k1\_rcomp\_1 (k8\_real\_1 (k10\_real\_1 np\_3 np\_4) k32\_sin\_cos) \\ & k32\_sin\_cos) (k4\_rcomp\_1 (k10\_real\_1 k32\_sin\_cos np\_2) k32\_sin\_cos) \end{aligned} \tag{4}$$

Assume the following.

$$(v1\_funct\_1 k1\_fdiff\_9) \wedge (m1\_subset\_1 k1\_fdiff\_9 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers))) \quad (5)$$

**Theorem 1**

$$v2\_funct\_1 (k2\_partfun1 k1\_numbers k1\_numbers k1\_fdiff\_9 (k1\_rcomp\_1 (k8\_real\_1 (k10\_real\_1 np\_3 np\_4) k32\_sin\_cos) k32\_sin\_cos))$$